**LLOYD A. WISE CO.**
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Tel. (510) 499-3001 Direct

**RECEIVED**
By Alameda County Environmental Health at 2:11 pm, Apr 13, 2015

April 9, 2015

Mr. Mark Detterman
Alameda County Health Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

**Re: Excavation Documentation Report (Report #4409)**
Batarse Redevelopment, 10550 International Blvd. Oakland, California
ACHSA Site Cleanup Program Case # R0003151; Global ID T0000006347

Dear Mr. Detterman:

Attached for your review is an Excavation Documentation Report for the referenced case. The report was prepared by WellTest, Inc. (WTI) at my request.

I declare under the penalty of perjury that information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any questions or comments, please do not hesitate to contact me, or the WTI project manager, Bill Dugan at (408) 287-2175.

Sincerely,

Anthony A. Batarse, Jr.
10550 International Blvd.
Oakland, CA 94603

WellTest, Inc.
*Contractor License No. 843074*

April 9, 2015

Mr. Mark Detterman
Alameda County Health Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

**Re: Excavation Documentation Report (Report #4409)**
Batarse Redevelopment, 10550 International Blvd. Oakland, California
ACHSA Site Cleanup Program Case # R0003151; Global ID T0000006347

Dear Mr. Detterman:

At the request of Mr. Anthony Batarse, Jr., WellTest, Inc. (WTI) has prepared this Excavation Documentation Report for the above-referenced voluntary clean-up case (Figures 1 through 3). This report was prepared to comply with the Alameda County Health Services Agency (ACHSA) directive dated February 9, 2015. Recent ACHSA letters are presented as Attachment A. A copy of the certified laboratory analytical report is presented as Attachment B. Supporting documentation is presented within Tables 1A and 1B and Figures 1 through 8.

## Technical Approach – Removal Action Program

On February 2, 2015 WTI submitted a Secondary Source Removal Work Plan for the case to the ACHSA for review and comment. The Work Plan presented a series of tasks to effectively remove and dispose of petroleum and metals (arsenic and lead) contaminated soils from five previously defined areas of concern (Area A through Area E). The objective of the proposed removal action and confirmation sampling work was the removal of impacted sediments and documentation that remaining soils do not exceed the current Low Threat Closure Policy (LTCP) or Environmental Screening Limits (ESLs) for residential occupation. The Work Plan was approved, with comments, by the ACHSA in their February 9, 2015 directive letter (Attachment A). The tasks outlined in the Work Plan were completed in March, 2015.

## Background

The site has a complicated environmental history which began with the removal of a gasoline UST from the property in 1993. More recently, in 2001, as part of a redevelopment plan for the Oakland Unified School (OUSD), an extensive soil and groundwater investigation was conducted at the site by Levine Frick Recon (LFR). Their investigation involved advancing a total of 62 borings in and around the site. A total of 52 groundwater and 279 soil samples were collected from the borings and analyzed for potential contaminants of concern (COCs). A risk analysis, including potentials for Human Exposure, was also performed as part of the investigation. The results of the investigation identified one area of concern in which concentrations of COCs exceeded action levels for residential development in soil and groundwater. LFR recommended remedial action consisting of over-excavating and off-hauling identified petroleum contaminated soils in this area. A Remedial Action Work Plan (RAW) for this work was prepared by LFR and submitted to the OUSD. Subsequently, the Department of Toxic Substance Control (DTSC), the oversight agency at the time, went through a series of evaluations, feedback and comments which resulted in the addition of five areas of concern that they desired to be added to the RAW. The RAW was not implemented and no remedial action took place at the site.

The work performed during this current investigation encompasses the excavation, sampling, and disposal of petroleum-contaminated soils identified in the LFR PSA under the building at 1424 105th Avenue. It also encompasses excavation of petroleum contaminated soils in three additional areas that were added during the DTSC's technical review, and one area ("E"), where elevated Arsenic had been discovered. The excavation areas are shown on Figure 3.

## Field Investigation

The field work documented in this report consisted of the excavation of soils from a total of five areas designation as Area A through E (Figures 3 through 8). Excavated soils were stockpiled on-site and confirmation soil samples were collected and analyzed from the sidewalls and floor of each excavation. The excavation work was performed by Environmental Restoration Services (CSLB License No. 589652) of Menlo Park, California and was observed by a Professional Geologist from WTI. All samples were collected by hammering a Stainless Steel sample tube into the soils at the desired sample depths. Once each sample was collected, the end of each sample tube was sealed with Teflon™ tape and capped. The caps were then sealed with silicone tape, labeled, sealed in individual plastic bags, and placed in a pre-chilled ice chest with ice to remain at 4° Celsius (°C) until they arrived at the analytical laboratory. Confirmation soil samples were collected by WTI in the locations and manner described below.

Area A – 1424 1056th at LFR Boring BASB-03: Prior to excavation, the interior building wall was deconstructed to allow access to the excavation equipment. The concrete floor overlying the excavation area was removed to allow access to the underlying soils. Soils were then excavated approximately 5 feet in all lateral directions surrounding LFR Boring BASB-031. The vertical depth of the excavation was approximately 10 feet below ground surface (bgs), making the total size of the excavation approximately 10 ft x 10 ft x 10 ft. Following excavation confirmation soil samples were collected from the walls and floor of the excavation. A total of 8 side wall samples (2 from each wall) and one floor sample were collected in the locations show on Figure 4.

Area B – 10550 International at LFR Boring BASB-036: Prior to excavation, the asphalt overlying the excavation area was removed to allow access to the underlying soils. Soils were proposed to be excavated 5 feet in all lateral directions surrounding LFR Boring BASB-036. However, a concrete post supporting a structure was located directly adjacent to former the former boring. As such, the excavation only extended ~ 2 feet in the southwest direction (Figure 5). The depth of the excavation was ~ 5 ft bgs. Four sidewall samples (1 from each wall) and one floor sample were collected from the excavation (Figure 5).

Area C – 10550 International at LFR Boring BASB-077: Prior to excavation, the asphalt overlying the excavation area was removed to allow access to the underlying soils. Soils were then excavated ~ 5 feet in all lateral directions surrounding LFR Boring BASB-077. The excavation was ~ 5 ft deep, making the total size of the excavation approximately 10 ft x 10 ft x 5 ft. Four sidewall samples (one from each wall) and one floor sample were collected in the locations show on Figure 6.

Area D – 1560 105th Ave. at LFR Boring BASB-022: Prior to excavation, the asphalt overlying the excavation area was broken out and removed to allow access to the underlying soils. Soils were then excavated approximately 5 feet in all lateral directions surrounding LFR Boring BASB-022. The excavation was ~ 10 ft bgs, making the total size of the excavation approximately 10 ft x 10 ft x 10 ft. Four sidewall samples (one from each wall) and one floor sample were collected in the locations show on Figure 7.

Area E – 1560 105th Ave. at LFR Boring BASB-023: Prior to excavation, the asphalt overlying the excavation area was broken out and removed to allow access to the underlying soils. Soils were then excavated approximately 5 feet in all lateral directions surrounding LFR Boring BASB-023. The depth of the excavation was ~ 4 ft deep, making the total size of the excavation ~ 10 ft x 10 ft x 4 ft. Four sidewall samples (one from each wall) and one floor sample were collected in the locations show on Figure 8.

## Laboratory Analysis of Confirmation Soil Samples

Soil samples collected from Areas A, B, C, and D were analyzed at a California State-certified laboratory for Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, total xylenes (BTEX), and MTBE by EPA Analytical Test Method SW8260b. These samples were additionally analyzed for Total Petroleum Hydrocarbons as diesel (TPHd) and motor oil (TPHmo) by the LUFT/FFP Method with Silica Gel Treatment. All samples collected from Areas A and E were additionally analyzed for the presence of lead by EPA Test Method 8010B. Samples from Area E were additionally analyzed for arsenic and zinc by EPA Test Method 8010B. A summary of the analytical results of the soil samples is presented in Tables 1A and 1B. The laboratory report is presented as Attachment B. A summary of the analytical data is presented below:

- **TPHg** was detected up to 2.3 mg/Kg in sample AREA D-NEwalld5.0;
- **TPHd** was detected up to 2.3 mg/Kg in sample AREA D-NEwalld5.0;
- **TPHmo** was detected up to 10 mg/Kg in sample AREA B-SWwalld4.5;
- **BTEX** was not detected above laboratory detection limits in any of the 23 soil samples;
- **MTBE** was not detected above laboratory detection limits in any of the 23 samples;
- **Lead** was detected in each of the 14 samples submitted for analysis at concentrations up to 66 mg/Kg (AREA E-NEwalld2.0);
- **Arsenic** was detected in each of the 5 samples submitted for analysis at concentrations up to 4.3 mg/Kg (AREA E-NWwalld2.0 and AREA E-SEwalld2.0); and
- **Zinc** was detected in each of the 5 samples submitted for analysis at concentrations up to 100 mg/Kg (AREA E-NEwalld2.0).

## Discussion of Analytical Results

The objective of the proposed removal action and confirmation sampling work was the removal of impacted sediments and documentation that remaining soils do not exceed the current LTCP or ESLs for residential occupation. The results of this investigation indicate hydrocarbon-impacted soils have been effectively removed from the designated areas of concern (Areas A through D). This is based upon the analytical results of sidewall and floor sampling from each of the areas of concern, as trace to non-detectable concentrations of TPHg, TPHd, TPHmo, BTEX and MTBE were detected in the samples submitted for analysis. As shown on Table 1A, the few detected concentrations were below regulatory action levels (ESLs) or LTCP criteria. Similarly, all lead and zinc contaminated soils from the areas of concern (Areas A and E) appear to have been effectively removed, as the detected lead and zinc concentrations were also well below regulatory action levels (ESLs) or LTCP criteria.

The only contaminant of concern (COC) detected at concentrations above regulatory action levels was arsenic, which was detected in each of the five confirmation samples collected from the sidewalls of the excavation in Area E (Table 1B). Each of the detected concentrations was between 4.1 and 4.3 mg/Kg. Although these concentrations are above regulatory action levels, they appear to be consistent with naturally

occurring background levels of arsenic in the area. LFR collected and analyzed 44 separate soil samples for arsenic from different areas across the site in 2001. Arsenic was detected in each of these samples at concentrations up to 33 mg/Kg, with an average detected concentration of 4.1 mg/Kg. Based upon these results, it appears that the previously identified arsenic contaminated soils has successfully be remediated to background levels.

## Backfill of Excavated Areas

The original Work Plan proposed backfilling the excavation areas with recycled base rock. The County agreed, but in Technical Comment #1 of their Work Plan Approval, requested that the recycled material be verified "clean" in accordance with DTSC's clean import Advisory document. After discussion with Mr. Detterman, and with his consensus, we chose to use virgin quarry import fill material from Vulcan Materials Pleasanton quarry, rather than the recycled base rock. All excavations were backfilled with this material and resurfaced with concrete. Backfill material specifications are presented in Attachment D.

## Disposal of Excavated Soils

The excavated stockpiled soil was profiled for disposal at the Republic Services Newby Island Landfill in Milpitas, California. On 3/25/15 and 3/28/15, the excavated and profiled soil was loaded into end dump trucks, and transported by manifest to the disposal facility, where it was received and disposed of. A total of 140.56 tons of soil was disposed. Copies of the Disposal Manifests are presented in Attachment E.

## Response to Technical Comments #2, 4, 5, and 6

Response to Technical Comments #2, 4, 5, and 6 of the Work Plan Approval will be submitted as a separate document.

## Conclusion

The objectives of the Work Plan appear to have been satisfied as all impacted soils in Areas A through E appear to have been successfully removed and stockpiled onsite. Confirmation sidewall and floor sampling confirms that the COCs have been successfully remediated to trace or non-detectable concentrations, or returned to background levels.

## Recommendation

Based upon conditions observed in the field, review of analytical data, and the above conclusions, WTI makes the following recommendation:

- A Draft Site Management Plan should be prepared and submitted as requested by the ACHSA directive letter (Attachment A).

## Closing Statement

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein are true and accurate, and the work was performed in accordance with professional standards. If you have any questions, please contact WTI at (408) 287-2175.

Sincerely
WellTest, Inc.


William R. Dugan, P.G.
Professional Geologist # 6253

## List of Figures and Attachments

| | |
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| Attachment A | Recent ACHSA Letters |
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| Attachment D | Backfill Material Specification |
| Attachment E | Disposal Manifests |
| Attachment F | Client Authorization Letter |

## Limitations

This report was prepared in accordance with standards of environmental geologic practice generally accepted in California at the time this investigation was performed. This investigation was conducted solely for the purpose of evaluating environmental conditions with respect to (TPHg, TPHd, TPHmo, MBTEX, and the metals lead, arsenic and zinc) in the areas sampled at the subject property. Excavation maps present interpretations derived by standard geologic practice of subsurface conditions based upon the sample locations. Actual subsurface conditions may differ at locations not sampled within the property. Accuracy or completeness of public or propriety records used to conduct this limited assessment is not implied. Further investigation, including subsurface exploration and laboratory testing of soil, soil gas, and groundwater samples at the site, can aid in evaluating subsurface environmental conditions and reduce the inherent uncertainties associated with this type of limited environmental assessment. The scope of work completed by WTI was limited to the logging of soil types (soil descriptions) and the collection of representative soil samples. WTI was not contracted or retained by Anthony A. Batarse, Jr. to supervise backfilling work or selection of backfill materials for the five excavations within Areas A through E. No soil engineering of geotechnical references are implied nor should be inferred.

This report is intended only for the use of WTI's client (Anthony A. Batarse, Jr.) and the ACHSA. WTI does not accept liability for unauthorized reliance or use by any other third party. WTI makes no express or implied warranty in regards to the contents of this report.

# TABLES

**TABLE 1A**
**SUMMARY OF CURRENT HYDROCARBON SOIL ANALYTICAL DATA**
**BATARSE PROPERTY**
**10550 INTERNATIONAL BLVD. AND 1424 & 1560 105th AVE.**
**OAKLAND, CALIFORNIA**

| Sample ID | Sample Depth (ft.) | Sample Date | TPHg (mg/Kg) | TPHd (mg/Kg) | TPHmo (mg/Kg) | B (mg/Kg) | T (mg/Kg) | E (mg/Kg) | X (mg/Kg) | MtBE (mg/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| **AREA A-NEwalld6.5** | 6.5 | 02/23/15 | ND<0.20 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-NEwalld10.0** | 10.0 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-NWwalld6.5** | 6.5 | 02/23/15 | **0.31** | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-NWwalld10.0** | 10.0 | 02/23/15 | ND<2.0 | **1.8** | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-SWwalld6.5** | 6.5 | 02/23/15 | **0.13** | **1.8** | **4.7** | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-SWwalld10.0** | 10.0 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-SEwalld6.5** | 6.5 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-SEwalld10.0** | 10.0 | 02/23/15 | **0.18** | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA A-BotMidd10.0** | 10.0 | 02/23/15 | ND<2.0 | **1.7** | **4.6** | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| | | | | | | | | | | |
| **AREA B-NWwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA B-NEwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA B-SWwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | **1.7** | **10** | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA B-SEwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA B-BotMidd5.0** | 5.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| | | | | | | | | | | |
| **AREA C-NWwalld4.0** | 4.0 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA C-NEwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA C-SWwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA C-SEwalld4.0** | 4.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA C-BotMidd5.0** | 5.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| | | | | | | | | | | |
| **AREA D-NWwalld5.0** | 5.0 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA D-NEwalld5.0** | 5.0 | 02/23/15 | ND<1.0 | **2.3** | **3.8** | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **AREA D-SWwalld5.0** | 5.0 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA D-SEwalld5.0** | 5.0 | 02/23/15 | ND<2.0 | ND<2.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.010 | ND<0.005 |
| **AREA D-BotMidd10.0** | 10.0 | 02/23/15 | ND<1.0 | ND<2.0 | ND<10.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.050 | ND<0.025 |
| **Residential ESL** | | | **100** | **100** | **500** | **0.044** | **2.9** | **3.3** | **2.3** | **0.023** |
| **Comm./Industrial ESL** | | | **500** | **500** | **2,500** | **0.044** | **2.9** | **3.3** | **2.3** | **0.023** |
| **Residential LTCP (0 to 5 ft)** | | | **NA** | **NA** | **NA** | **1.900** | **NA** | **21** | **NA** | **NA** |

**Notes:**

<0.5 / ND = Not present at or above reporting detection limit
mg/Kg = micrograms per kilogram = parts per million = ppm
ESLs = Environmental Screening Levels shallow soil (potential source of drinking water): Summary Table A, May 2013
TPHg =Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel (with Silica Gel cleanup)
TPHmo = Total Poetroleum Hydrocarbons as moto oil (with Silica Gel Cleanup)
B = Benzene T = Toluene
E = Ethylbenzene X = Xylenes (total)
MtBE = Methyl t-butyl ether LTCP = Low Threat Closure Policy

# TABLE 1B
## SUMMARY OF CURRENT METALS SOIL ANALYTICAL DATA
## BATARSE PROPERTY
## 10550 INTERNATIONAL BLVD. AND 1424 & 1560 105th AVE.
## OAKLAND, CALIFORNIA

| Sample ID | Sample Depth (ft.) | Sample Date | Lead (mg/Kg) | Arsenic (mg/Kg) | Chrom VI (mg/Kg) | Total Chrom (mg/Kg) | Zinc (mg/Kg) |
|---|---|---|---|---|---|---|---|
| **AREA A-NEwalld6.5** | 6.5 | 02/23/15 | **7.3** | --- | --- | --- | --- |
| **AREA A-NEwalld10.0** | 10.0 | 02/23/15 | **8.3** | --- | --- | --- | --- |
| **AREA A-NWwalld6.5** | 6.5 | 02/23/15 | **8.8** | --- | --- | --- | --- |
| **AREA A-NWwalld10.0** | 10.0 | 02/23/15 | **8.0** | --- | --- | --- | --- |
| **AREA A-SWwalld6.5** | 6.5 | 02/23/15 | **7.6** | --- | --- | --- | --- |
| **AREA A-SWwalld10.0** | 10.0 | 02/23/15 | **7.8** | --- | --- | --- | --- |
| **AREA A-SEwalld6.5** | 6.5 | 02/23/15 | **7.8** | --- | --- | --- | --- |
| **AREA A-SEwalld10.0** | 10.0 | 02/23/15 | **8.1** | --- | --- | --- | --- |
| **AREA A-BotMidd10.0** | 10.0 | 02/23/15 | **8.6** | --- | --- | --- | --- |
| | | | | | | | |
| **AREA E-NEwalld2.0** | 2.0 | 02/23/15 | **66** | **4.1** | --- | --- | **100** |
| **AREA E-NWwalld2.0** | 2.0 | 02/23/15 | **14** | **4.3** | --- | --- | **78** |
| **AREA E-SWwalld2.0** | 2.0 | 02/23/15 | **11** | **4.2** | --- | --- | **43** |
| **AREA E-SEwalld2.0** | 2.0 | 02/23/15 | **25** | **4.3** | --- | --- | **70** |
| **AREA E-BotMidd4.0** | 4.0 | 02/23/15 | **6.9** | **4.2** | --- | --- | **43** |
| | | | | | | | |
| **AREA 4-B-1d3.0** | 3.0 | 02/23/15 | --- | --- | **0.88** | **32** | --- |
| **Residential ESL** | | | **80** | **0.39** | **8.0** | **NA** | **600** |
| **Comm./Industrial ESL** | | | **320** | **0.96** | **8.0** | **NA** | **600** |
| **Residential CHHSL** | | | **150** | **0.07** | **17** | **NA** | **23,000** |
| **Comm./Industrial CHHSL** | | | **3500** | **0.24** | **37** | **NA** | **100,000** |

**Notes:**

--- = Parameter not analyzed

<0.5 / ND = Not present at or above reporting detection limit

mg/Kg = micrograms per kilogram = parts per million = ppm

ESLs = Environmental Screening Levels shallow soil (potential source of drinking water): Summary Table A, May 2013

CHHSL California Human Health Screening Level - January 2005.

# FIGURES


APPROX. SCALE

0 1.0 2.0 MI

SOURCE: USGS 1:24,000 SCALE SERIES SAN LEANDRO, CA QUAD

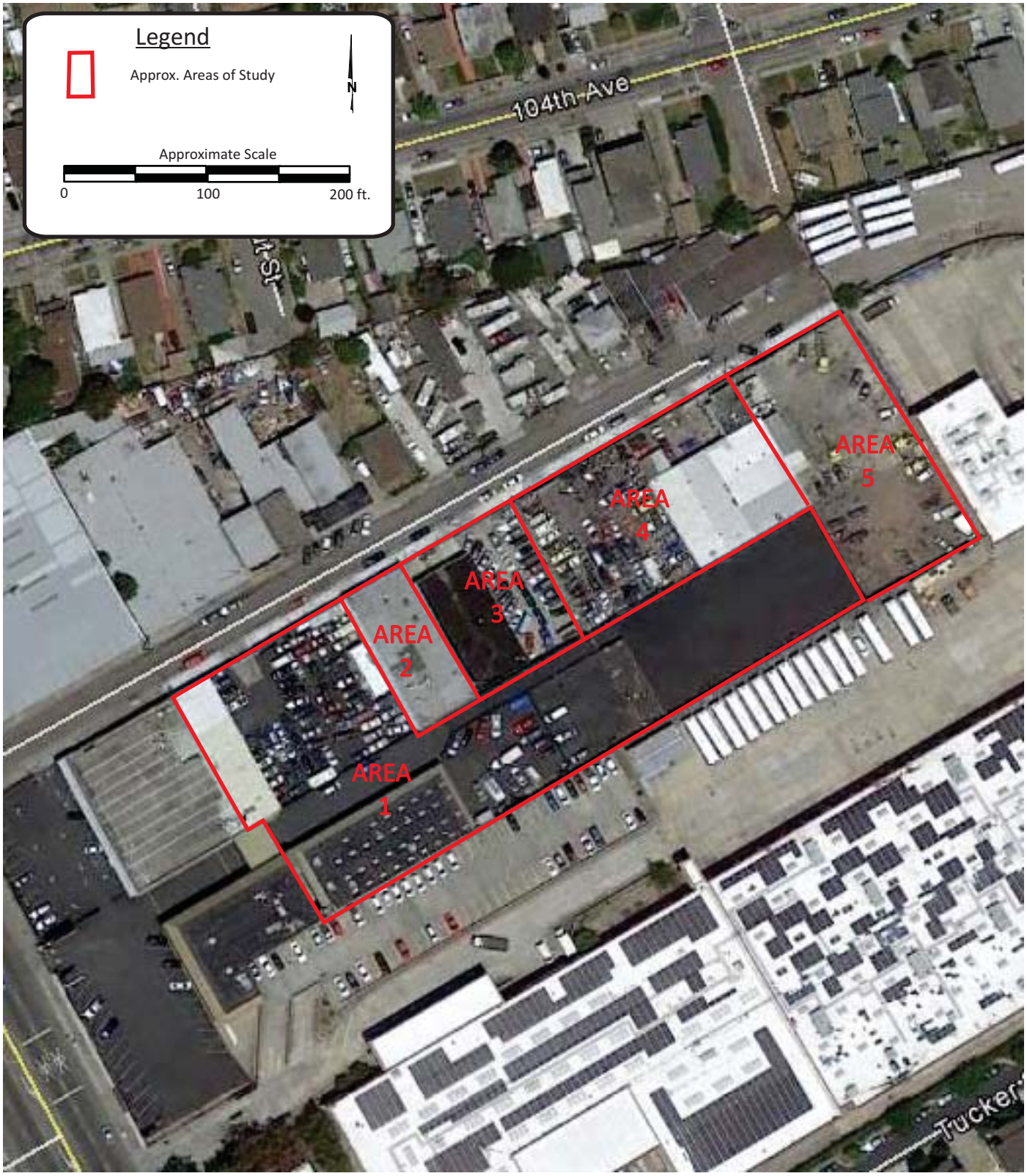
WellTest, Inc.
*Contractor License No. 843074*

**10500 INDUSTRIAL BLVD.**
**OAKLAND, CALIFORNIA**

**SITE VICINITY TOPO MAP**

**FIGURE**

**1**



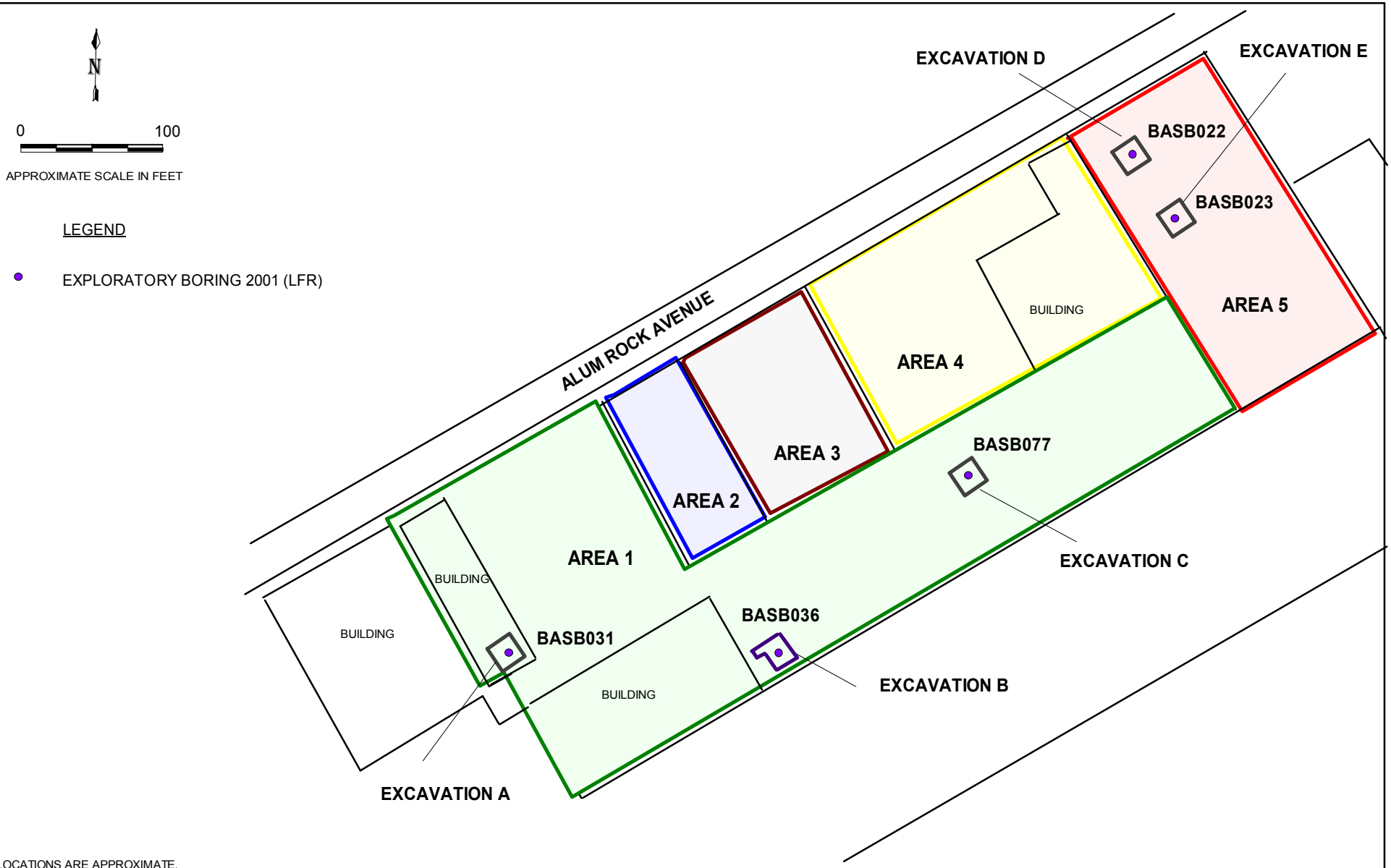

WellTest, Inc.
*Contractor License No. 843074*

**10500 INDUSTRIAL BLVD.**
**OAKLAND, CALIFORNIA**

**AERIAL PHOTOGRAPH OF SITE VICINITY**

**FIGURE**

**2**




ALL LOCATIONS ARE APPROXIMATE.
BASEMAP FROM GOOGLE EARTH 2015

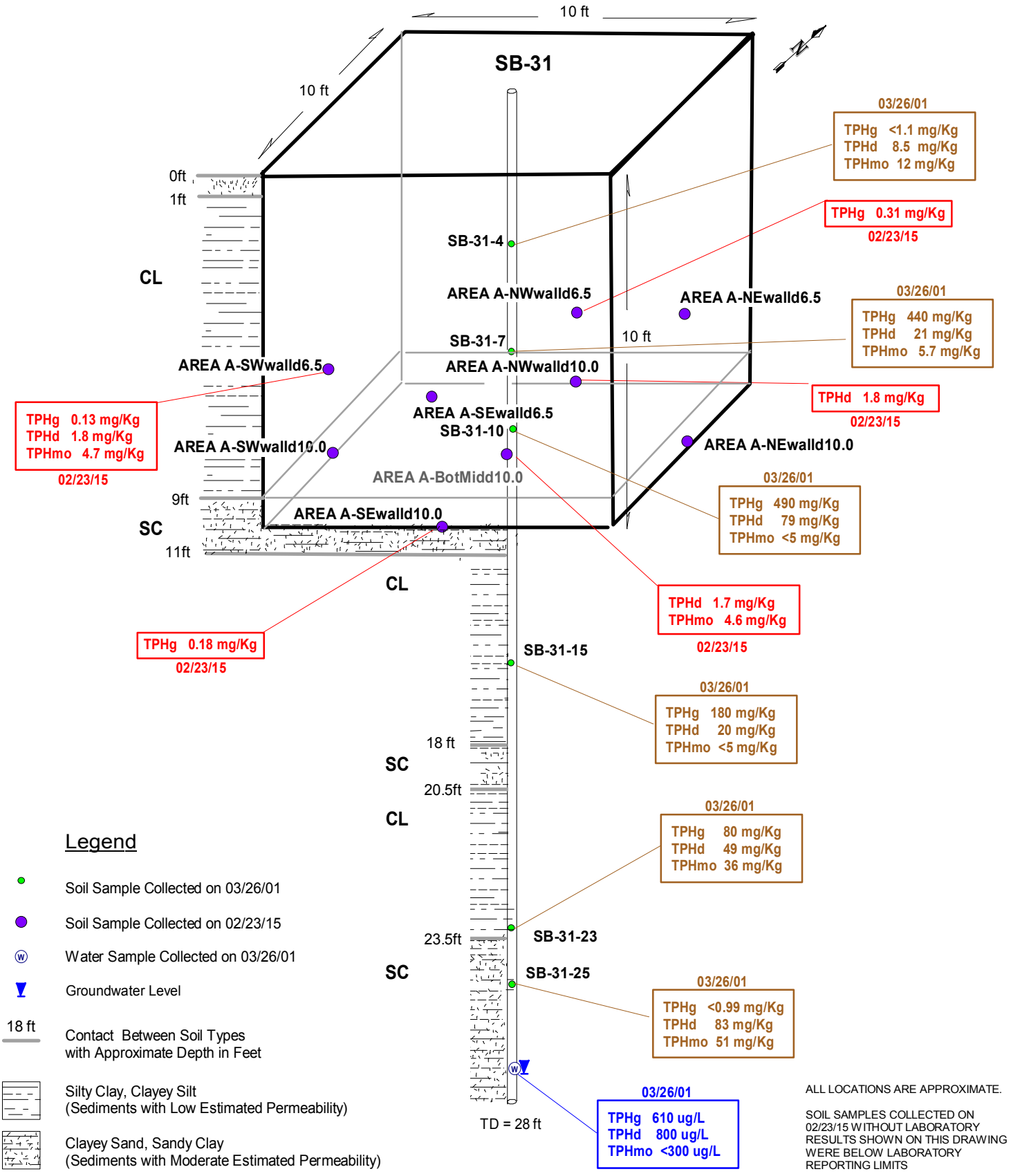
**WellTest, Inc.**
License No. 843074
P.O. Box 8548
San Jose, CA 95155
Phone (408) 287-2175

## EXTENDED SITE MAP SHOWING STUDY AREAS 1 THROUGH 5 AND EXCAVATIONS A THROUGH E

BATARSE PROPERTY
10550 INDUSTRIAL AVENUE
OAKLAND, CALIFORNIA

**FIGURE 3**

File: 4409/Figure 3



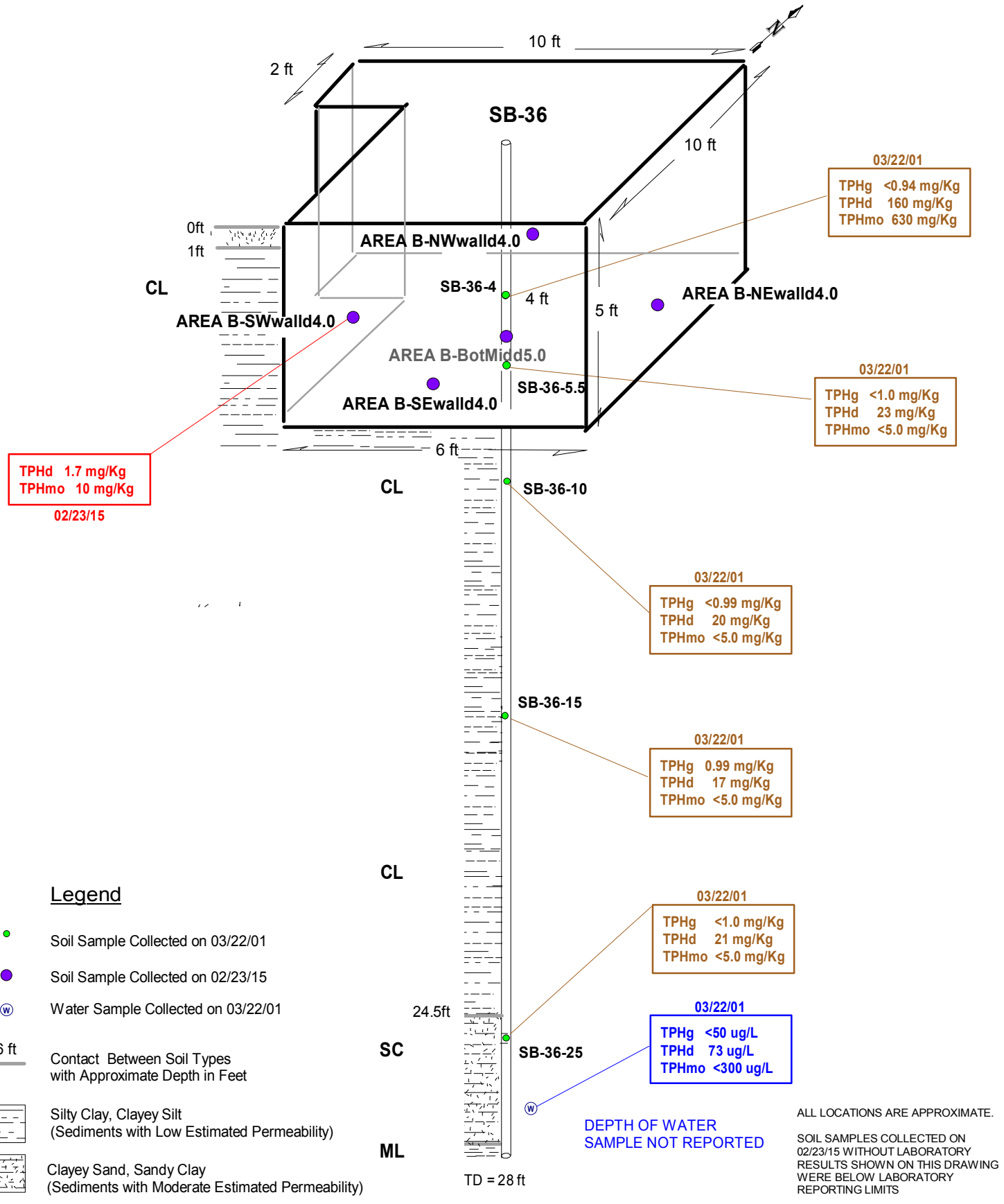

**WellTest, Inc.**
License No. 843074
P.O. Box 8548
San Jose, CA 95155
Phone (408) 287-2175

# AREA "A" EXCAVATION DIAGRAM AND SOIL SAMPLE LOCATIONS (2001 AND 2015)

BATARSE PROPERTY
10550 INDUSTRIAL AVENUE
OAKLAND, CALIFORNIA

**FIGURE 4**

File: 4409/Figure 4



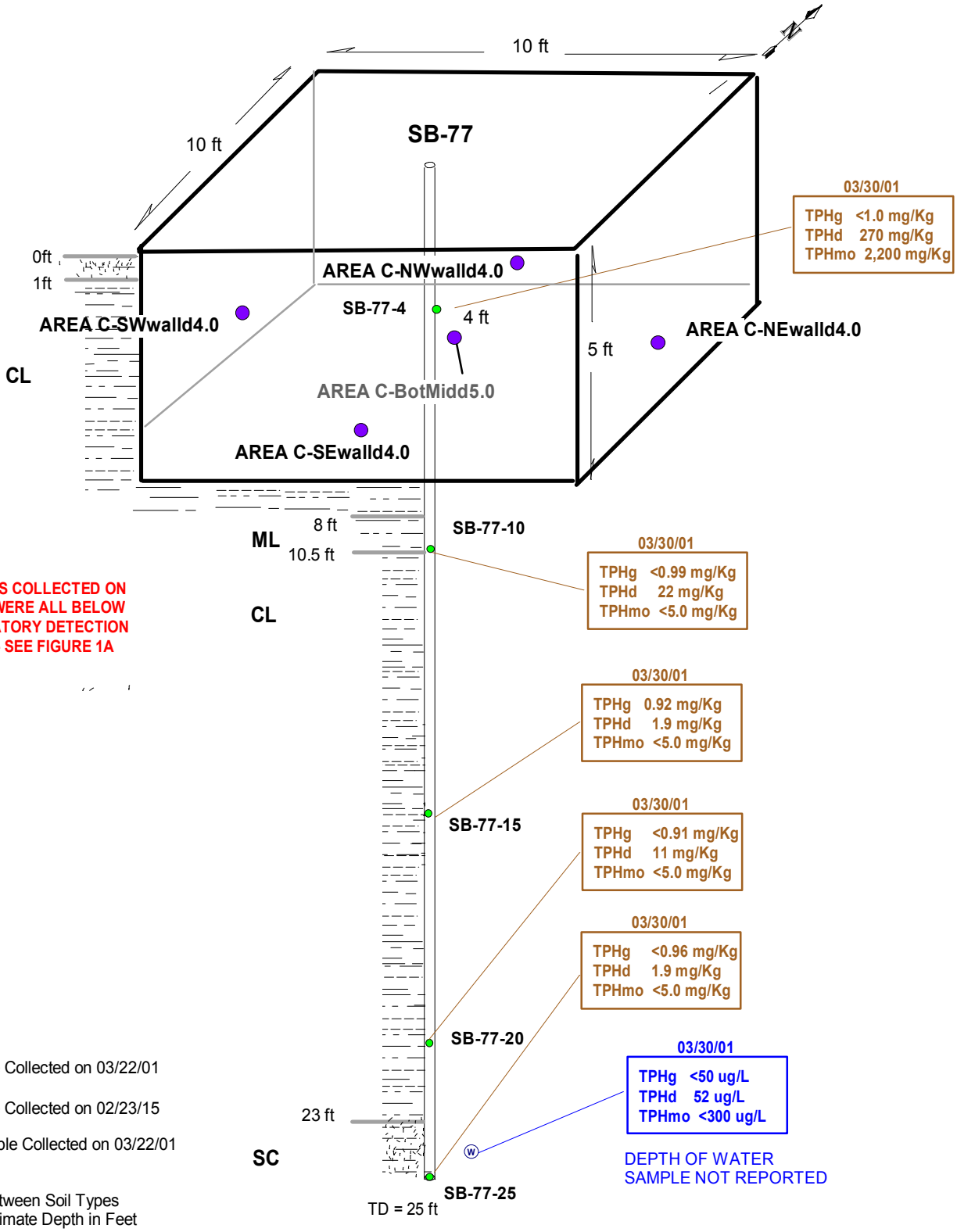

**WellTest, Inc.**
License No. 843074
P.O. Box 8548
San Jose, CA 95155
Phone (408) 287-2175

# AREA "B" EXCAVATION DIAGRAM AND SOIL SAMPLE LOCATIONS (2001 AND 2015)

BATARSE PROPERTY
10550 INDUSTRIAL AVENUE
OAKLAND, CALIFORNIA

**FIGURE 5**

File: 4409/Figure 4




ALL LOCATIONS ARE APPROXIMATE.

SOIL SAMPLES COLLECTED ON 02/23/15 WITHOUT LABORATORY RESULTS SHOWN ON THIS DRAWING WERE BELOW LABORATORY REPORTING LIMITS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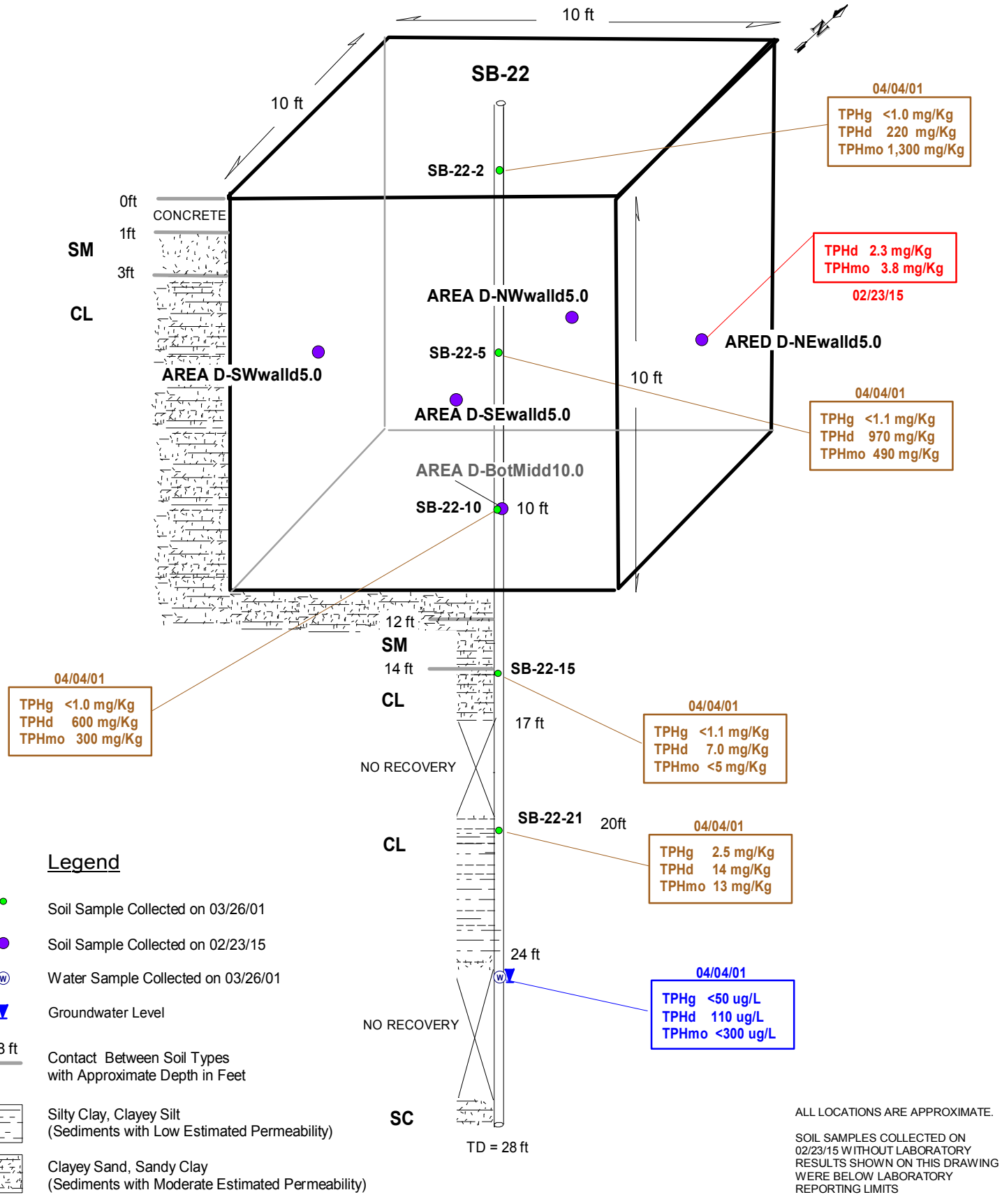
San Jose, CA 95155
Phone (408) 287-2175


# AREA "C" EXCAVATION DIAGRAM AND SOIL SAMPLE LOCATIONS (2001 AND 2015)

BATARSE PROPERTY
10550 INDUSTRIAL AVENUE
OAKLAND, CALIFORNIA

**FIGURE 6**

File: 4409/Figure 6

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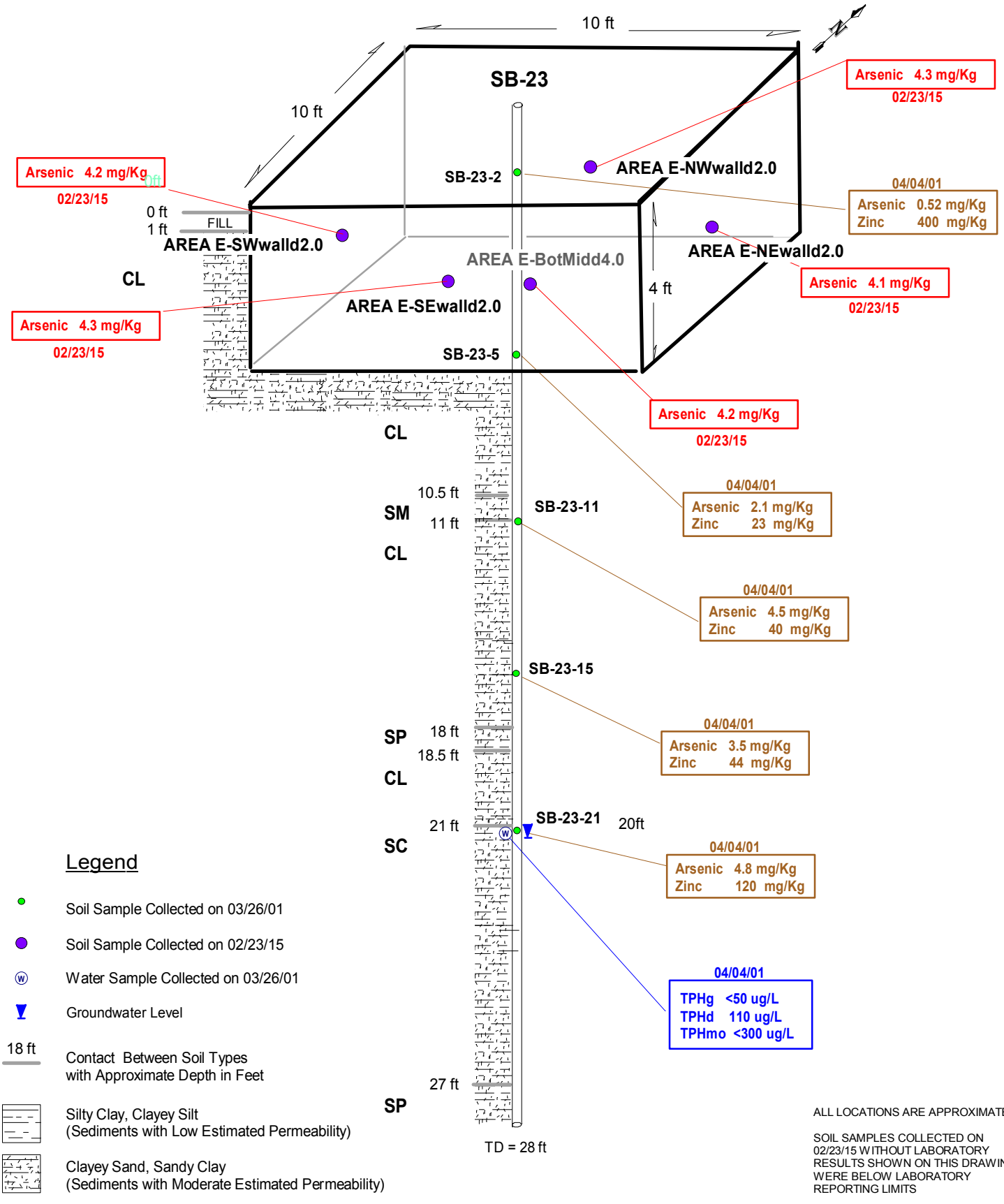
P.O. Box 8548
San Jose, CA 95155
Phone (408) 287-2175

# AREA "D" EXCAVATION DIAGRAM AND SOIL SAMPLE LOCATIONS (2001 AND 2015)

BATARSE PROPERTY
10550 INDUSTRIAL AVENUE
OAKLAND, CALIFORNIA

**FIGURE 7**

File: 4409/Figure 7




**WellTest, Inc.**
License No. 843074
P.O. Box 8548
San Jose, CA 95155
Phone (408) 287-2175

# AREA "E" EXCAVATION DIAGRAM AND SOIL SAMPLE LOCATIONS (2001 AND 2015)

BATARSE PROPERTY
10550 INDUSTRIAL AVENUE
OAKLAND, CALIFORNIA

**FIGURE 8**

File: 4409/Figure 8

# ATTACHMENT A

## Recent ACHSA Directive Letters

ALAMEDA COUNTY
**HEALTH CARE SERVICES**
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 9, 2015 (*Revised*)

Mr. Anthony Batarse, Jr.
10550 International Boulevard
Oakland, CA 94603
(Sent via email to anthonya@batarse.com)

Subject: Modified Excavation Work Plan Approval and Request for Work Plan; Site Cleanup Program Case No. RO0003115 and Geotracker Global ID T0000006347, 10550 International Boulevard, Oakland, CA 94603

Dear Mr. Batarse:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Secondary Source Removal Work Plan,* dated February 2, 2015. The remedial excavation work plan was prepared and submitted on your behalf by WellTest, Inc. (WellTest). The work plan was submitted in response to a telephone conversation held on January 12, 2015 after ACEH review of the *Proposed Voluntary Clean-up - Letter of Understanding*, dated December 5, 2014, submitted on your behalf by Phase-1 Environmental Services. Thank you for submitting the documents.

ACEH has also received and reviewed the following documents:

- *Batarse Project Site, Phase I Environmental Site Assessment Report*, ENSR Consulting and Engineering, October 2000
- *Preliminary Environmental Assessment Work Plan*, Levine Fricke Recon, May 25, 2001
- *Preliminary Environmental Assessment Report, Batarse Report*, Levine Fricke Recon, October 3, 2001
- *Responses to Comments on Draft Remedial Action Work Plan*, Batarse Site, Levine Fricke Recon, October 18, 2002

The February 2015 work plan proposed the remedial excavation of five areas (identified as Areas A to E) within Areas of Concern (AOC) 1 and 5 as defined by Levine-Fricke Recon (LFR) in their *Preliminary Environmental Assessment Report, Batarse Site*, dated October 3, 2001 (LFR AOCs 2 and 3 are within the subject parcels but do not appear to require remediation, and AOCs 6 to 9 are not located on the site currently under discussion, but were part of a larger redevelopment then under consideration that did not proceed).

In general, the size and depth of the proposed remedial excavations contained in the work plan remained consistent with those proposed by LFR in their *Response to Comments on Draft Remedial Action Workplan* (RAW) dated October 18, 2002; however, the depth of the excavations appears to have been partly modified and limited to a depth of 10 feet below surface grade (bgs) based on the State Water Resource Control Board's (SWRCB) August 2012 Low Threat Underground Storage Tank Case Closure Policy (LTCP). The RAW appears to have evaluated alternative remedial technologies, but selected excavation as most appropriate at the subject site. Thus it is the judgment of ACEH that re-evaluation of alternative remedial options is not required again.

Additionally, while the LTCP was specifically designed to be applied to underground storage tanks (USTs), the LTCP document specifically states that it is not intended to be limited to UST sites only, and can be applied at sites with similar attributes. ACEH is in general agreement that the petroleum portion of contamination at the subject site can be managed under a LTCP closure scenario; however, the documented metals contamination cannot. For metals, the referenced excavation work plan proposes to use remedial goals consistent with the Environmental Screening Levels (ESLs) promulgated by the San

Francisco Bay Regional Water Quality Control Board (RWQCB). The most recent version is dated December 2013. Please note that while the likelihood of groundwater use in this area of Oakland in the near future is limited, the July 2013 *San Francisco Bay Basin (Region 2) Water Quality Control Plan* (Basin Plan) considers groundwater in the area to be of potential future beneficial use, and thus the appropriate remedial ESL goals for the site are for potential drinking water ("Groundwater is Current or Potential Source of Drinking Water.") Please reference these concentrations in reports.

ACEH notes that the remedial excavation work plan also did not recommend the excavation of a moderately elevated concentration of 160 milligrams per kilogram (mg/kg) of chromium in AOC 4 previously proposed by LFR. The rationale is that while the concentration is higher than all other chromium concentrations at the site, the concentration does not exceed the total chromium ESL of 750 mg/kg for residential or commercial land use. At present this appears reasonable; however, please see the request for addition work contained in the technical comments below.

Based on ACEH staff review of the work plan, the proposed scope of work is conditionally approved for implementation provided that the technical comments below are incorporated during the proposed work. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or these technical comments is proposed. We request that you address the following technical comments, perform the proposed work, and send us the report described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

## TECHNICAL COMMENTS

1. **Quality of Imported Recycled Concrete Baserock –** The primary goal at the site is to achieve a cleanup of the site that is protective of human health and the environment. Due to potential contamination issues with recycled concrete (e.g. absorbed hydrocarbons, PCBs, PNAs, solvents, and etc.), ACEH requests the submittal of a document that certifies that the recycled concrete is appropriate for this site, including laboratory analysis of the specific material to be imported, by the date identified below.

   Please see Attachment A for the Department of Toxics Substances Control (DTSC) clean import guidance document (*Information Advisory Clean Imported Fill Material*), and the New Jersey Department of Environmental Protection (NJDEP) *Guidance for Characterization of Concrete and Clean Material Certification for Recycling*.

2. **Future Site Land-Use -** The referenced work plan and letter of understanding state that the subject site, comprised of multiple assessor's parcels, has an interested purchaser that intends on keeping the existing commercial land use classification near the front of the parcels (10500 and 10550 International Boulevard) , and converting areas behind the frontage to residential land use. It appears that this will require both parcel splitting and merging. Additionally, review of the case closure for the Lloyd Wise Honda Nissan site (RO0000966, Global ID No. T0600101676) located along the frontage of the parcels under discussion appears to suggest that the former waste oil UST and a nearby sump may be on a portion of the proposed project that would be rezoned as residential (and might potentially be located in the vicinity of excavation Area A). Because the Lloyd Wise Honda Nissan case was closed to commercial, with a land use restriction if the site is to be redeveloped (risk assessment or other), this would involve re-evaluating this portion of the parcel.

   In order to determine the plans for the subject site as a whole, as well as to the individual parcels, including portions of the parcels, and with the intent of specifically identifying the remedial goals for each area of interest (commercial versus residential), ACEH requests copies of existing development plans be submitted electronically by the date referenced below**.**

   This is requested to include future building foundation details because site grade level changes, including the development of subsurface structures (parking, elevator shafts, intended soil reuse, etc.) affect the selection of remedial goals, and remedial excavation depths. At present, it appears that each of the areas proposed for excavation (Areas A to E) would require residential remedial goals. If this is incorrect, please notify ACEH by the date listed below.

3. **Remedial Excavation Work Plan Clarifications –** The referenced work plan proposes a series of actions with which ACEH is in general agreement of undertaking; however, ACEH requests several modifications to the approach. Please submit an excavation report by the date specified below.

   a. **Soil Sample Selection Protocols –** The work plan proposes to collect and retain soil samples for laboratory analysis from each excavation sidewall as well as the bottom of the excavation. In regards to the sidewall samples, please collect discrete soil samples at the depth of contamination documented by the soil bores that originally detected the contamination, and additionally at signs of contamination (photoionization detections, discoloration, odor, etc). Additionally, please bias the selected discrete soil samples to these indications of contamination in order to characterize worst-case concentrations. This is likely to require additional soil samples on each sidewall and the bottom.

   b. **Areas A and E –** Due to elevated lead concentrations in Areas A and E please additionally test all soil samples for lead in addition to those contaminants already proposed for each area. Due to moderately elevated zinc concentrations in Area E, please additionally include analysis for zinc in the Area. ACEH recognizes that while the zinc concentration is below residential ESLs, it is relatively elevated compared to other site and Area analytical results and occurs in association with elevated lead and arsenic. This suggests an association that warrants a quick evaluation including laboratory analysis.

4. **Atypical Chromium Concentration in AOC 4 –** As discussed above, atypical elevated concentrations of metals an order of magnitude higher than all other site concentrations can indicate the potential for associated additional atypical analytical results in the vicinity of the atypical chromium detection (in this case in soil bore BASB013). The referenced work plan proposed to exclude the area of this sample for excavation is reasonable; however, the concentration and the potential for additional atypical results require further evaluation. Therefore, by the date requested below, please submit a work plan to further evaluate the vicinity of soil bore BASB013.

5. **Near Surface Soils Analytical Testing –** In general the shallowest soil sample collected by LFR was at an approximate depth of 2 feet bgs; however, the preponderance of samples were collected starting at an approximate depth of 3 or 4 feet bgs. Historic uses at the site indicate that contamination of shallower soil is probable and requires evaluation; however, can be managed in association with planned redevelopment (prior to demolition or grading, etc.). Due to the proposed rezoning from commercial to residential, this becomes of increased importance. Potential contaminants include petroleum hydrocarbons, metals including but not limited to lead, chromium, and zinc, as well as other chemicals known or likely to have been used by existing or historic businesses at the parcels. Therefore, please present a work plan to evaluate shallow soils at the site, by the date referenced below.

6. **Status of Phase 1 Recommendations –** The ENSR Phase 1, dated October 2000, contained a series of recommendations by property address, and indicated the potential presence of one or more heating oil USTs and the presence of a water supply well. ACEH has not been able to determine if these concerns have been addressed by previous investigations. Therefore, please address the extent these issues have been addressed by existing data, or if not previously addressed, please include a scope of work in the requested work plan to address these concerns.

7. **GeoTracker Compliance** – A review of the State Water Resources Control Board's (SWRCB) GeoTracker website indicates this recently created site has not been claimed and site documents have not been uploaded to Geotracker. Because this is a state requirement, ACEH requests that the site be claimed in GeoTracker by the date identified below.

   Pursuant to California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the SWRCB GeoTracker system via the internet. Also, beginning January 1, 2002, all permanent monitoring points utilized to collect groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude to sub-meter accuracy using NAD 83. A California

licensed surveyor may be required to perform this work. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs, including SCP programs. Additionally, pursuant to California Code of Regulations, Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3893, 3894, and 3895, beginning July 1, 2005, the successful submittal of electronic information (i.e. report in PDF format) shall replace the requirement for the submittal of a paper copy. Please claim your site and upload all future submittals to GeoTracker and ACEH's ftp server by the date specified below. Electronic reporting is described below on the attachments.

Additional information regarding the SWRCB's GeoTracker website may be obtained online at http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/ and http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml) or by contacting the GeoTracker Help Desk at geotracker@waterboards.ca.gov or (866) 480-1028.

Additionally, please be aware that Environmental Deliverable Format (EDF) analytical data is required to be submitted to Geotracker. Please obtain these from the analytical laboratory.

8. **Draft Site Management Plan –** Because the site is intended for redevelopment and there appears to be a likelihood of encountering additional contamination as redevelopment proceeds due to past uses and the existing analytical data set, it is apparent that the site warrants a Site Management Plan (SMP). The SMP is intended to detail characterization methodology prior to and during redevelopment, sampling protocols, laboratory analysis and intervals, analytical methodology, soil and groundwater handling procedures for contaminated and uncontaminated media, and minimum health and safety protocols. Please submit a draft SMP by the date identified below.

**TECHNICAL REPORT REQUEST**

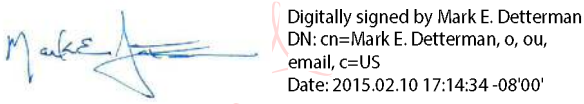
Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the specified file naming convention below, according to the following schedule:

- **March 13, 2015 –** Concrete Sampling Report and Certification
  File to be named: RO3151_MISC_R_yyyy-mm-dd
- **March 13, 2015 –** Claim Site on Geotracker and Upload Recent Documents
  Please notify your case worker by email.
- **March 13, 2015 –** Site Development Plans for Identification of Excavation Area Remedial Goal
  File to be named: RO3151_MISC_R_yyyy-mm-dd
- **April 17, 2015 –** Excavation Report
  File to be named: RO3151_EX_R_yyyy-mm-dd
- **April 17, 2015 –** Site Investigation Work Plan
  File to be named: RO3151_WP_R_yyyy-mm-dd
- **April 17, 2015 –** Draft Site Management Plan
  File to be named: RO3151_WP_R_yyyy-mm-dd

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,




Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations and Electronic Report Upload (ftp) Instructions

Attachment A - *Information Advisory Clean Imported Fill Material*, DTSC and *Guidance for Characterization of Concrete and Clean Material Certification for Recycling,* NJDEP

cc: Stuart Solomon, Phase-1 Environmental Services, 5216 Harwood Road, San Jose, CA 95124, (Sent via email to stuart@phase-1environmental.com)

William Dugan, WellTest, Inc, PO Box 8548, San Jose, CA 95155
(Sent via email to dugan@welltest.biz)

Dilan Roe, ACEH, (Sent via electronic mail to dilan.roe@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

**Attachment 1**

**Responsible Party(ies) Legal Requirements / Obligations**

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

| Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) | **REVISION DATE:** May 15, 2014 |
|---|---|
| | **ISSUE DATE:** July 5, 2005 |
| | **PREVIOUS REVISIONS:** October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010 |
| **SECTION:** Miscellaneous Administrative Topics & Procedures | **SUBJECT:** Electronic Report Upload (ftp) Instructions |

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

**REQUIREMENTS**

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

**Submission Instructions**

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to deh.loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

# Information Advisory
# Clean Imported Fill Material

October 2001

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

***It is DTSC's mission to restore, protect and enhance the environment, to ensure public health, environmental quality and economic vitality, by regulating hazardous waste, conducting and overseeing cleanups, and developing and promoting pollution prevention.***

State of California

California Environmental Protection Agency

## Executive Summary

*This fact sheet has been prepared to ensure that inappropriate fill material is not introduced onto sensitive land use properties under the oversight of the DTSC or applicable regulatory authorities. Sensitive land use properties include those that contain facilities such as hospitals, homes, day care centers, and schools. This document only focuses on human health concerns and ecological issues are not addressed. It identifies those types of land use activities that may be appropriate when determining whether a site may be used as a fill material source area. It also provides guidelines for the appropriate types of analyses that should be performed relative to the former land use, and for the number of samples that should be collected and analyzed based on the estimated volume of fill material that will need to be used. The information provided in this fact sheet is not regulatory in nature, rather is to be used as a guide, and in most situations the final decision as to the acceptability of fill material for a sensitive land use property is made on a case-by-case basis by the appropriate regulatory agency.*

## Introduction

The use of imported fill material has recently come under scrutiny because of the instances where contaminated soil has been brought onto an otherwise clean site. However, there are currently no established standards in the statutes or regulations that address environmental requirements for imported fill material. Therefore, the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) has prepared this fact sheet to identify procedures that can be used to minimize the possibility of introducing contaminated soil onto a site that requires imported fill material. Such sites include those that are undergoing site remediation, corrective action, and closure activities overseen by DTSC or the appropriate regulatory agency. These procedures may also apply to construction projects that will result in sensitive land uses. The intent of this fact sheet is to protect people who live on or otherwise use a sensitive land use property. By using this fact sheet as a guide, the reader will minimize the chance of introducing fill material that may result in potential risk to human health or the environment at some future time.

## Overview

Both natural and manmade fill materials are used for a variety of purposes. Fill material properties are commonly controlled to meet the necessary site specific engineering specifications. Because most sites requiring fill material are located in or near urban areas, the fill materials are often obtained from construction projects that generate an excess of soil, and from demolition debris (asphalt, broken concrete, etc.). However, materials from those types of sites may or may not be appropriate, depending on the proposed use of the fill, and the quality of the assessment and/or mitigation measures, if necessary. Therefore, unless material from construction projects can be demonstrated to be free of contamination and/or appropriate for the proposed use, the use of that material as fill should be avoided.

## Selecting Fill Material

In general, the fill source area should be located in nonindustrial areas, and not from sites undergoing an environmental cleanup. Nonindustrial sites include those that were previously undeveloped, or used solely for residential or agricultural purposes. If the source is from an agricultural area, care should be taken to insure that the fill does not include former agricultural waste process byproducts such as manure or other decomposed organic material. Undesirable sources of fill material include industrial and/or commercial sites where hazardous ma-

### Potential Contaminants Based on the Fill Source Area

| Fill Source: | Target Compounds |
|---|---|
| Land near to an existing freeway | Lead (EPA methods 6010B or 7471A), PAHs (EPA method 8310) |
| Land near a mining area or rock quarry | Heavy Metals (EPA methods 6010B and 7471A), asbestos (polarized light microscopy), pH |
| Agricultural land | Pesticides (Organochlorine Pesticides: EPA method 8081A or 8080A; Organophosphorus Pesticides: EPA method 8141A; Chlorinated Herbicides: EPA method 8151A), heavy metals (EPA methods 6010B and 7471A) |
| Residential/acceptable commercial land | VOCs (EPA method 8021 or 8260B, as appropriate and combined with collection by EPA Method 5035), semi-VOCs (EPA method 8270C), TPH (modified EPA method 8015), PCBs (EPA method 8082 or 8080A), heavy metals including lead (EPA methods 6010B and 7471A), asbestos (OSHA Method ID-191) |

**The recommended analyses should be performed in accordance with USEPA SW-846 methods (1996). Other possible analyses include Hexavalent Chromium: EPA method 7199*

## Recommended Fill Material Sampling Schedule

| Area of Individual Borrow Area | Sampling Requirements |
|---|---|
| 2 acres or less | Minimum of 4 samples |
| 2 to 4 acres | Minimum of 1 sample every 1/2 acre |
| 4 to 10 acres | Minimum of 8 samples |
| Greater than 10 acres | Minimum of 8 locations with 4 subsamples per location |
| **Volume of Borrow Area Stockpile** | **Samples per Volume** |
| Up to 1,000 cubic yards | 1 sample per 250 cubic yards |
| 1,000 to 5,000 cubic yards | 4 samples for first 1000 cubic yards +1 sample per each additional 500 cubic yards |
| Greater than 5,000 cubic yards | 12 samples for first 5,000 cubic yards + 1 sample per each additional 1,000 cubic yards |

terials were used, handled or stored as part of the business operations, or unpaved parking areas where petroleum hydrocarbons could have been spilled or leaked into the soil. Undesirable commercial sites include former gasoline service stations, retail strip malls that contained dry cleaners or photographic processing facilities, paint stores, auto repair and/or painting facilities. Undesirable industrial facilities include metal processing shops, manufacturing facilities, aerospace facilities, oil refineries, waste treatment plants, etc. Alternatives to using fill from construction sites include the use of fill material obtained from a commercial supplier of fill material or from soil pits in rural or suburban areas. However, care should be taken to ensure that those materials are also uncontaminated.

### Documentation and Analysis

In order to minimize the potential of introducing contaminated fill material onto a site, it is necessary to verify through documentation that the fill source is appropriate and/or to have the fill material analyzed for potential contaminants based on the location and history of the source area. Fill documentation should include detailed information on the previous use of the land from where the fill is taken, whether an environmental site assessment was performed and its findings, and the results of any testing performed. It is recommended that any such documentation should be signed by an appropriately licensed (CA-registered) individual. If such documentation is not available or is inadequate, samples of the fill material should be chemically analyzed. Analysis of the fill material should be based on the source of the fill and knowledge of the prior land use.

Detectable amounts of compounds of concern within the fill material should be evaluated for risk in accordance with the DTSC Preliminary Endangerment Assessment (PEA) Guidance Manual. If

metal analyses are performed, only those metals (CAM 17 / Title 22) to which risk levels have been assigned need to be evaluated. At present, the DTSC is working to establish California Screening Levels (CSL) to determine whether some compounds of concern pose a risk. Until such time as these CSL values are established, DTSC recommends that the DTSC PEA Guidance Manual or an equivalent process be referenced. This guidance may include the Regional Water Quality Control Board's (RWQCB) guidelines for reuse of non-hazardous petroleum hydrocarbon contaminated soil as applied to Total Petroleum Hydrocarbons (TPH) only. The RWQCB guidelines should not be used for volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCS). In addition, a standard laboratory data package, including a summary of the QA/QC (Quality Assurance/Quality Control) sample results should also accompany all analytical reports.

When possible, representative samples should be collected at the borrow area while the potential fill material is still in place, and analyzed prior to removal from the borrow area. In addition to performing the appropriate analyses of the fill material, an appropriate number of samples should also be determined based on the approximate volume or area of soil to be used as fill material. The table above can be used as a guide to determine the number of samples needed to adequately characterize the fill material when sampled at the borrow site.

## Alternative Sampling

A Phase I or PEA may be conducted prior to sampling to determine whether the borrow area may have been impacted by previous activities on the property. After the property has been evaluated, any sampling that may be required can be determined during a meeting with DTSC or appropriate regulatory agency. However, if it is not possible to analyze the fill material at the borrow area or determine that it is appropriate for use via a Phase I or PEA, it is recommended that one (1) sample per truckload be collected and analyzed for all compounds of concern to ensure that the imported soil is uncontaminated and acceptable. (See chart on Potential Contaminants Based on the Fill Source Area for appropriate analyses). This sampling frequency may be modified upon consultation with the DTSC or appropriate regulatory agency if all of the fill material is derived from a common borrow area. However, fill material that is not characterized at the borrow area will need to be stockpiled either on or off-site until the analyses have been completed. In addition, should contaminants exceeding acceptance criteria be identified in the stockpiled fill material, that material will be deemed unacceptable and new fill material will need to be obtained, sampled and analyzed. Therefore, the DTSC recommends that all sampling and analyses should be completed prior to delivery to the site to ensure the soil is free of contamination, and to eliminate unnecessary transportation charges for unacceptable fill material.

Composite sampling for fill material characterization may or may not be appropriate, depending on quality and homogeneity of source/borrow area, and compounds of concern. Compositing samples for volatile and semivolatile constituents is not acceptable. Composite sampling for heavy metals, pesticides, herbicides or PAH's from unanalyzed stockpiled soil is also unacceptable, unless it is stockpiled at the borrow area and originates from the same source area. In addition, if samples are composited, they should be from the same soil layer, and not from different soil layers.

When very large volumes of fill material are anticipated, or when larger areas are being considered as borrow areas, the DTSC recommends that a Phase I or PEA be conducted on the area to ensure that the borrow area has not been impacted by previous activities on the property. After the property has been evaluated, any sampling that may be required can be determined during a meeting with the DTSC.

*For further information, call Richard Coffman, Ph.D., R.G., at (818) 551-2175.*

**The New Jersey Department of Environmental Protection**
**Solid and Hazardous Waste Management Program**

# Guidance for Characterization of Concrete and Clean Material Certification for Recycling

**(Updated January 12, 2010)**

## I. Overview:

The New Jersey Department of Environmental Protection (Department or NJDEP) is requiring the characterization, preferably by in situ predemolition sampling, or post-demolition sampling, through the laboratory analysis of concrete, post-demolition concrete-processing fines and brick and block (referred to herein as concrete) at all New Jersey demolition and construction sites that have the Department's Site Remediation Program's and Licensed Site Remediation Professional Program's, (SRP) oversight when the concrete is designated for: 1) recycling pursuant to N.J.A.C. 7:26A *et seq*.; or, 2) beneficial use pursuant to N.J.A.C. 7:26-1.7(g), rather than disposal as solid waste. This characterization requirement applies to demolished buildings, concrete roadways and related structures such as, but not limited to, sidewalks and curbing. The Department is taking this step to ensure that the concrete entering the State's concrete recycling system is clean and will not contaminate otherwise clean sites. The Department is also outlining in the, "Guidance for Characterization of Concrete and Clean Material Certification for Recycling" (Guidance), how site owners can self-certify building materials as clean prior to demolition without sampling and analysis. See Section VI for information on clean building certification compliance procedures.

The Sampling and Analysis Protocol outlined below is for certain contaminants that the Department recognizes may be found in concrete from contaminated sites. Only uncontaminated concrete will normally qualify for unrestricted recycling, while some minimally contaminated concrete or concrete fines may qualify for beneficial uses but only with Department approval.

For example, asphalt-contaminated concrete or concrete mixed with soils may meet beneficial use requirements for certain conditional uses at roadways. No sampling of the concrete from a site is required under this guidance if the property owner chooses to dispose of all of the material as solid waste. Note that Department approval pursuant to N.J.A.C. 7:26-1.7(g)8 is required for the beneficial use of materials out of state, which may require sampling and analysis of the material to meet the receiving State's requirements.

## II. Concrete Materials Characterization:

Through either in situ, which is the preferred approach, or post demolition sampling the site owner is responsible for characterizing the concrete in the structures the owner is demolishing. In situ sampling and analysis is sampling prior to demolition at targeted areas of the structure, which are known and suspected areas of contamination, in order to determine contamination levels. More detailed information concerning in situ sampling requirements is described in Section V below.

Alternatively, the owner may elect to conduct post-demolition sampling and analysis of the concrete from a structure or consolidation of concrete from roadway and related structures. The concrete material must be stockpiled on the property where it is generated if it is to be considered for either recycling or beneficial use. The material should be staged in Sampling Areas of segregated material based on any knowledge of contamination and sampled according to the Sampling and Analysis Protocol below in Section V. Otherwise the concrete must be managed as solid waste per the solid waste regulatory requirements at N.J.A.C. 7:26 *et seq*. All sampling must take place where the material is generated in accordance with the Department's Technical Requirements for Site Remediation at N.J.A.C. 7:26E, including the Field Sampling Procedures Manual.

## III. Criteria for Materials Disposition:

The disposition of all concrete material from contaminated sites with the Department's **SRP's** oversight at contaminated sites shall be determined by characterization of the material using the results of sampling and analysis conducted according to this Guidance. The analytical results shall be compared to the Department's most recent Soil Remediation Standards (SRS) at N.J.A.C. 7:26D, which are publicly available at the following website: http://www.nj.gov/dep/srp/regs/rs/ .

Note that the Impact to Groundwater Soil Remediation Standards are not applicable to the materials addressed in this guidance.

Data averaging is not permitted in order to achieve compliance with the standards.

For material that is intended to be used on the site of generation sampling and management of material must be conducted in compliance with the requirements of the Department's case manager.

Concrete materials containing contamination entirely below the Department's Residential Direct Contact Soil Remediation Standards (RDCSRS) shall be considered eligible for transfer: 1) to a Class B Recycling Center holding a General or Limited Approval for recycling, 2) for recycling per the recycling site approval exemption requirements at N.J.A.C. 7:26A-1.4(a)2, 7, or 20, or 3) for direct unrestricted use on or off site in compliance with all other requirements. Compliance with any Federal, State, and local requirements is still required for all uses of concrete materials.

Materials containing any contaminant above the Department's RDCSRS are considered solid wastes and must be managed in accordance with all statutory and Department regulatory requirements including, but not limited to, the full requirements for solid waste pursuant to the Solid Waste Regulations at N.J.A.C. 7:26 *et seq*. including classification as hazardous waste as necessary, or at specific Class B recycling centers authorized to accept the material, or beneficial use in accordance with Department requirements. Department guidance for conducting Beneficial Use Projects and a project application form are available at http://www.state.nj.us/dep/dshw/rrtp/bud.htm . These contaminated materials do not qualify for the following: 1) recycling at the State's Class B, or other, Recycling Centers holding a General Approval or at Class B Limited Recycling Centers approved in

accordance with the requirements at N.J.A.C. 7:26A-3.7 unless the facilities are specifically authorized to accept the material; 2) recycling at sites operating per the recycling approval exemption requirements at N.J.A.C. 7:26A-1.4(a)2, 7, or 20; and, 3) for direct reuse or recycling on or off of the site of generation without Department approval.

## IV. Separation of Distinct Demolition Areas and Materials:

The sampling and analysis protocol specified in this document in Section V is based on defining distinct areas of the structure for initial in situ sampling or demolition based on known and suspected areas of contamination within or on a structure, roadway or pad or any other "area of concern". Demolition shall be planned to prevent the mixing of areas of demolition that are contaminated with uncontaminated areas in the form of a demolition workplan. The site owner is obligated to develop and implement a plan to segregate contaminated materials from uncontaminated materials. Demolition practices should separate out materials that may be contaminated prior to and/or concurrent with demolition, for proper manifesting and/or disposal as solid waste.

## V. Sampling and Analysis:

1. **What Demolition Materials to Sample:** Source Separated Concrete, Block, Brick and Concrete Fines (processed concrete fines or concrete mixed with soil, sand, stone, etc.) at all New Jersey demolition and construction sites that have the Department's Site Remediation Program's oversight at a contaminated site.

2. **How to Sample**:
   a. **Biased Sampling**: All sampling, including in situ sampling, shall be biased toward visible staining or other indication of potential contamination: such as the source of the material, coloration or odor.

   b. **Sampling Methods:** the Department is specifying approved sampling methods as either chip or core samples. Core samples shall be no deeper than 1 inch unless staining or discoloration indicates that contamination is below that depth. Sampling logs shall record the depth of core samples. This would further support the Self Certification Process discussed below. Confirmatory sampling is required of material intended for recycling if suspected contaminated sections of material are removed.

   c. **Sampling Areas**: Sampling areas shall be determined based on each distinct area of demolition such as separate properties, separate structures on the same property, known or suspected areas of contamination within a structure or roadway, or designated Areas of Concern (AOC). The Department case manager may be consulted as an option for advice, or a determination, of which structures to sample.

      **Sampling Frequency**: In situ sampling frequency is dependent on the number of areas of biased sampling and whether contamination is found at sampling locations. Material used for samples shall not exceed 1 (one) inch maximum in

depth. If additional material is needed for a sample additional sample(s) should be colocated at the sampling point. In situ samples shall always be discrete samples and not composited.

Each post-demolition Sampling Area, such as accumulated concrete material in individual staged stockpiles, shall be sampled at the following rate. Material used for individual samples shall not exceed 1 (one) inch maximum in size, and depth. If additional material is needed for a sample additional sample(s) should be colocated at the sampling point.

(Each composite sample must include 1 sample for each 20 $yds^3$.)

| Quantity | | Number of Composite Samples |
|---|---|---|
| Less than 400 $yds^3$ | - | 1/100 total $yds^3$ |
| 400 $yds^3$ – 2000 $yds^3$ | - | 1/200 total $yds^3$ + 2 |
| Over 2000 $yds^3$ | - | 1/500 total $yds^3$ + 8 |

(Ex. 1: 310 total $yds^3$ project requires: (310/100) = 4 samples.)
(Ex. 2: 735 total $yds^3$ project requires: (735/200) + 2 = 6 samples.)
(Ex. 3: 1,750 total $yds^3$ project requires: (1750/200) + 2 = 11 samples.)
(Ex. 4: 5,000 total $yds^3$ project requires: (5000/500) + 8 = 18 samples.)
(Note: for any amount over a volume increment round up to the next highest number of samples as in ex. 1 and 2.)

**3. What Contaminants to Analyze**: (Analysis Profile)

All sampling and sample analyses shall be conducted in accordance with the criteria and methods specified in the Technical Requirements for Site Remediation at N.J.A.C. 7:26E *et seq*. The Department sanctions composite sampling for the purposes of post-demolition materials characterized for management per this Guidance. In situ samples shall always be discrete samples and not composited.

**For all sites**:

a. **PCBs & PAHs**: **:**

**S**ample and analyze in all concrete and concrete fine materials. If the recycled concrete is going to be used as road base, the requirement to analyze for PAHs may be eliminated by the site case manager.

**Based on site-specific factors, or as directed by the SRP Manager**:

b. **TCLP, TAL/TCL+30, TPH:**

If known or suspected at industrial, mining or other sites, or as directed by the Department's Case Manager for the site, analyze for VOCs, SVOCs, TCLP Pesticides, Herbicides; TAL/TCL+30, TPH, and as required on a case-specific basis RCRA TCLP including TCLP metals.

c. **Dioxins/Furans**:

If known or suspected at industrial, mining or other sites, or as directed by the site Case Manager for the site, use USEPA Method 1613B, 1ppt detection limit, 17-congener profile, or the latest Department-approved method. Consult the Department for a case-specific determination for use of materials containing

elevated levels of dioxins/furans above a screening level of 50 parts per trillion (ppt) total 17-congener Toxicity Equivalents (TEQ) off site.

d. **Radionuclides as** Naturally Occurring Radioactive Material (NORM):
If known or suspected at industrial, mining or other sites, or as directed by the Department's Case Manager for the site, analyze by gamma spectroscopy for the natural series of radionuclides. The representative samples should be dried, sealed and counted after 21 days. The minimum detectable concentration requirement for Ra-226 and Th-232 daughter nuclides should be 0.5 picoCuries per gram (pCi/g) on dried material. Provide laboratory documentation of analysis and methodology. The laboratories must be certified by the Department's Office of Quality Assurance (OQA) for radionuclides in soil analysis DOE 4.5.2.3. Contact Mr. Vas Komanduri of OQA at (609)984-0855 for a current list of certified laboratories.

The following industries are recognized by the Department's Bureau of Environmental Radiation as having the potential to have technologically enhanced Naturally Occurring Radioactive Material (NORM) contamination potential: Paper and pulp facilities; Ceramics manufacturing; Paint and pigment manufacturing; Metal foundry facilities; Optical glass; Fertilizer plants; Aircraft manufacture; Munitions and armament manufacture; Scrap metal recycling; Zirconium manufacturing; Oil and gas production, refining, and storage; Electricity generation; Cement and concrete product manufacture; Radiopharmaceutical manufacturing; Geothermal energy production.

If material is from a radioactive materials licensee or a former licensee, or is a radioactively contaminated site, contact the Bureau of Environmental Radiation case manager for assistance.

## VI. Clean Building Self Certification Compliance:

This section discusses the procedures for the owner of a structure self certifying that the structure is clean. The Department will allow the owner of a site that is a demolition and construction site with the **SRP**'s oversight that is required to comply with this Guidance, to self certify the site, or a portion or portions of the site's structures, as clean either based on the results of in situ or post-demolition sampling and analysis prior to concrete material disposition per this guidance document or by reviewing the historical uses and construction features of the site. Note that each individual building or structure at the site from which concrete will be generated for recycling or use as outlined above must undergo either sampling and analysis per the guidance in sections I through V of the "Guidance for Characterization of Concrete and Clean Material Certification for Recycling," or one of the two self-certification procedures described in this section.

The person completing the certification must be a principal executive officer, general partner or proprietor of the company or a high level official of a government-owned site. The site owner has the option of providing a delegation of authority, which assigns responsibility for signing the Certification Statement from the officer or high ranking official to the local site manager, to the Department with the Certification Statement.

1. **Self Certification with Sampling/Analysis**:

   The self Certification process with sampling specifies that all of the concrete and concrete materials contain contamination of PCBs and PAHs, and other contaminants based on site-specific factors or as directed by the SRP's Case Manager, below the Department's Soil Remediation Standards. The site owner shall base the self Certification on analytical data from the testing of the concrete in accordance with this Guidance and certify that the concrete was fully characterized and also managed according to the requirements of this Guidance. The owner of the site is responsible for compliance with this Guidance, maintaining all documentation related to the demolition and material characterization process including demolition and sampling plans, analytical testing documentation and material disposition after self Certification and filing self Certification documents with the Department.

   The owner of the property where the concrete sampling was conducted shall complete the Certification in Addendum 2 of this Guidance, which the owner shall have notarized and retain with the characterization documentation on site for a minimum of five years. The owner of the property is responsible for submitting a copy of the executed Certification to the SRP Case Manager for the site.

2. **Self Certification without Sampling/Analysis using the "Clean Building Checklist":**

   The self Certification process without sampling specifies that all of the concrete and concrete materials contain contamination of PCBs and PAHs, and other contaminants based on site specific factors or as directed by the SRP's Case Manager, below the Department's Soil Remediation Standards based on an assessment of the historical uses of the site and building construction materials. The site owner shall base the self Certification on the results of the "Clean Building Checklist" in accordance with this Guidance and certify that the concrete is clean based on the assessment of the building and also managed according to the requirements of this Guidance. The owner of the site is responsible for compliance with this Guidance, maintaining all documentation related to the demolition and assessment process including demolition and sampling plans, analytical testing documentation and material disposition after self certification and filing self Certification documents with the Department.

   The owner of the property for which the, "Clean Building Checklist for Recycling" was used to assess the status of material contamination in the building shall complete the Certification in Addendum 2 of this Guidance, noting that the "Clean Building Checklist" was used to determine the building's concrete and related materials are clean. The owner shall have the Certification notarized and retain with the other related facility documentation. The owner of the property is responsible for submitting a copy of the executed Certification to the SRP Case Manager for the site.

# ADDENDUM 1
## The New Jersey Department of Environmental Protection
## Solid and Hazardous Waste Management Program
# CLEAN BUILDING CHECKLIST for RECYCLING

| Activity | Yes | No | * If "Yes", Include Detailed Comments |
|---|---|---|---|
| 1. Was the building constructed or concrete poured in the year 2000 or later? | | | |
| 2. Was the building constructed or the concrete poured between 1990 and 1999? | | | |
| 3. The following questions apply to the current and historic use of the building (including prior owners and operators): | | | |
| a. Did the building contain liquid filled transformers? | | | |
| b. Did the building contain liquid filled PCB equipment? | | | |
| c. Did the building contain oil filled equipment? | | | |
| d. Did the building contain chemicals? | | | |
| e. Did the building contain heat transfer equipment? | | | |
| f. Was the building utilized for an industrial process where chemicals may have been manufactured or used? | | | |
| 4. Does the building have doorways that are caulked? | | | |
| 5. Does the building have windows that are caulked? | | | |
| 6. Does the building have exterior panels with joints that are caulked? | | | |
| 7. Does the building have floor concrete expansion joints that are caulked? | | | |
| 8. Are there any sumps, floor drains or pits in a chemical room or process area (include current and historic operations)? | | | |
| 9. Did the building have chemical waste collection areas (current and historic operations)? | | | |
| 10. Did the building have storage areas for raw materials or finished products that contained liquids (include current and historic operations)? | | | |

(March 2007)

**Sampling and Analysis Summary:** (Detailed direction for sampling and analysis is described in the Guidance.)

- No sampling or analysis is required for any buildings or concrete poured 2000 or later
- Buildings constructed between 1990 and 1999; sampling is only required in areas with an affirmative response as required in the, "Clean Building Checklist for Recycling"
- Buildings containing caulking, expansion joints and constructed between 1990 and 1999, sampling for PCBs is required
- Nonbuilding structures (i.e., sidewalks, curbs, driveways, etc.) constructed between 1990 and 1999, analysis of PCBs & PAHs is required

* Include or attach appropriate documentation to support claims.

## ADDENDUM 1 (cont.)

# CLEAN BUILDING CHECKLIST for RECYCLING - INSTRUCTIONS

**Clean Building Checklist Determination**:
To certify that a nonindustrial use building (i.e., cafeterias, offices hotels, etc.) or structure (i.e., sidewalks, etc.) are free of contamination (a.k.a., clean) because of the building's historical uses and operations, the owner of the facility should, at a minimum, conduct the following:

For nonindustrial use buildings or structures constructed in the year 1990 or later, complete the Department's "Clean Building Checklist", a series of questions related to the historical use(s) of such structures and buildings, the age, etc. If, after completing the checklist, the owner determines that no evidence of industrial use has occurred, the building or structure is considered clean and no sampling will be required. If the building or structure can not be documented as clean, then targeted sampling is required using the protocol below. Follow the Certification process in the Guidance.

**Building Self Certification Process Summary**:
For nonindustrial use buildings and structures constructed prior to 1990 or if the completion of the "Clean Building Checklist" revealed possible industrial uses, targeted sampling shall be performed of the caulking from windows, doorways, expansion joints in floors and external panels, spacers from other structures, transformers and electrical supply areas and other known or suspected contaminated building components;

Targeted sampling shall be completed as follows: the caulking from one outer doorway will be sampled for PCBs and PAHs. If it can be documented that all the doorways were installed at the same time and no physical alterations were made since installation, then the one sample shall be representative. Otherwise, samples will be taken from multiple outer doorways and composited into one sample. At a minimum, at least one 5-sample composite from different doorways shall be analyzed from each building's doorway caulking for PCBs. The same sampling protocol shall be followed for windows, expansion joints in floors and external panels, spacers from other structures, transformers and electrical supply areas or other known or suspected contaminated building components;

A copy of the results shall be retained for five years and shall be certified by the site operations manager or the ranking corporate officer at the site according to the procedure in the Department's "Guidance for Characterization of Concrete and Clean Material Certification for Recycling" available at:
http://www.state.nj.us/dep/dshw/resource/techman.htm#concrete .

Note: that this is the recommended Guidance at this time only for determining that concrete and related materials are suitable for recycling in the State's recycling system.

# ADDENDUM 2:
## The New Jersey Department of Environmental Protection
## Solid and Hazardous Waste Management Program

## CERTIFICATION STATEMENT FOR CONCRETE DESIGNATED FOR RECYCLING

"I certify under penalty of law that I have personally examined and am familiar with the information related to this material characterization documentation concerning the self Certification of the site named herein and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, complete and meets the requirements of the latest, **"Guidance for Characterization of Concrete and Clean Material Certification for Recycling"** issued by the New Jersey Department of Environmental Protection that all of the concrete and concrete materials contain contamination of PCBs and PAHs, and other contaminants as directed by the SRP Case Manager, below the Department's Soil Remediation Standards. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that, in addition to criminal penalties, I may be liable for a civil administrative penalty pursuant to N.J.A.C. 7:26-5 and that submitting false information may be grounds for denial, revocation or termination of any solid waste facility permit, vehicle registration or other Department authorization for which I may be seeking approval or now hold."

Note below whether Sampling was conducted and/or the "Clean Building Checklist" was completed:

**Sampling Conducted:** **Complete "Clean Building Checklist:**

**NAME OF SITE**

_____

**ADDRESS**

_____

**CITY, STATE & ZIP CODE**

_____

**NAME OF CERTIFYING PERSON (**must be a corporate officer) **TITLE**

_____

**SIGNATURE OF CERTIFYING PERSON** (must be a corporate officer) **DATE**

_____

**TELEPHONE** **FAX**

_____

**INTERNET WEBSITE ADDRESS** **EMAIL**

_____

**IMPORTANT**

Pursuant to N.J.S.A. 47:lA-1 et seq. the information provided in this form and its attachments shall be available to the public for review unless a specific claim of confidentiality is submitted pursuant to the procedures set forth in N.J.A.C. 7:26-17 et seq. and is approved by the Department. For assistance regarding confidentiality claims, please contact the Solid and Hazardous Waste Management Program at (609) 984-6985.

SIGNATURES. IN WITNESS WHEREOF, Owner has executed this Certification of Concrete Sampling as of the date first written above.

[If Owner is an individual]

WITNESS:

_____ _____

[Signature] [Print name below signature]

[If Owner is a corporation]

ATTEST: [Name of corporation]

_____ By_____

_____ _____

[Print name and title] [Signature]

[If Owner is a general or limited partnership]

WITNESS: [Name of partnership]

_____

_____ By_____, General

[Signature] [Print name] Partner

[If Owner is an individual]

STATE OF [State where document is executed] SS.:
COUNTY OF [County where document is executed]

I certify that on _____, 20__, [Name of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that this person [or if more than one person, each person]

(a) is named in and personally signed this document; and

(b) signed, sealed and delivered this document as his or her act and deed.

_____

_____, Notary Public
[Print Name and Title]

[If Owner is a corporation]

STATE OF [State where document is executed] SS.:
COUNTY OF [County where document is executed]

I certify that on _____, 20__, [Name of person executing document on behalf of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that:

(a) this person is the [secretary/assistant secretary] of [Owner], the corporation named in this document;

(b) this person is the attesting witness to the signing of this document by the proper corporate officer who is the [president/vice president] of the corporation;

(c) this document was signed and delivered by the corporation as its voluntary act and was duly authorized;

(d) this person knows the proper seal of the corporation which was affixed to this document; and

(e) this person signed this proof to attest to the truth of these facts.

_____

[Signature]

_____
[Print name and title of attesting witness]

Signed and sworn before me on _____, 20__

_____, Notary Public

_____
[Print name and title]

[If Owner is a partnership]

STATE OF [State where document is executed] SS.:
COUNTY OF [County where document is executed]

I certify that on _____, 20__, [Name of person executing document on behalf of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that this person:

(a) is a general partner of [Owner], the partnership named in this document;

(b) signed, sealed and delivered this document as his or her act and deed in his capacity as a general partner of [owner]; and

(c) this document was signed and delivered by such partnership as its voluntary act, duly authorized.

_____
[Signature]

_____, General Partner
[Print Name]

_____, Notary Public

_____
[Print name and title]

# ATTACHMENT B

## Certified Laboratory Report

Date of Report: 03/06/2015

Bill Dugan

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

| | |
|---|---|
| Client Project: | 4409 - Batarse Property |
| BCL Project: | Soil Samples |
| BCL Work Order: | 1504579 |
| Invoice ID: | B197502 |

Enclosed are the results of analyses for samples received by the laboratory on 2/25/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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# Chain of Custody Form

**RUSH!**

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BC Laboratories, Inc.

*Required Fields

| | |
|---|---|
| Report To: Client:* WellTest, Inc. | Project Description:* Bolsa Property |
| Attn:* Bill Dugan | Project Code:* 4409 |
| Street Address:* PO Box 8548 | Sampler (s):* Forrest Cook |
| City:* San Jose State:* CA Zip:* 95155 | |
| Phone#:*(408 ) 460 - 1884 Fax#: ( ) - | |
| Email Address: dugan@welltest.biz | |
| Submission #: 15-04579 | |

| Sample # | Sample Description | Date | Time | Matrix* | TPHg+MBTEX by 8260 | TPHd w/silica gel | TPHmo w/Silica gel | Lead |
|---|---|---|---|---|---|---|---|---|
| -1 | AREA A-NE wall d 6.5 | 2/23/15 | 12:17 | Soil | X | X | X | X |
| -2 | AREA A-NE wall d 10.0 | | 12:16 | | X | X | X | X |
| -3 | AREA A-NW wall d 6.5 | | 12:10 | | X | X | X | X |
| -4 | AREA A-NW wall d 10.0 | | 12:19 | | X | X | X | X |
| -5 | AREA A-SW wall d 6.5 | | 12:14 | | X | X | X | X |
| -6 | AREA A-SW wall d 10.0 | | 12:20 | | X | X | X | X |
| -7 | AREA A-SE wall d 6.5 | | 12:13 | | X | X | X | X |
| -8 | AREA A-SE wall d 10.0 | | 12:18 | | X | X | X | X |
| -9 | AREA A-Bot Mid d 10.0 | | 12:21 | | X | X | X | X |
| | | | | | | | | |
| | | | | | | | | |

**Billing**
Client:* WellTest, Inc.
Attn:* Bill Dugan
Address:* PO Box 8548
City:* San Jose State:* CA Zip:* 95155
Are there any tests with holding times? less than or equal to 48 hours?
☐ Yes ☑ No
*Standard Turnaround = 10

**Notes**
5 Day Turnaround

CHK BY | INSTRUCTION | SUB-OUT

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:*** ☐ 24 Hr Rush ☐ 48 Hr Rush ☐ 3-5 Day Rush ☑ Normal (10 – Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:

☐ MBU Site
☐ CVX RCRA
☑ Geotracker 5 File (CA Default)
☐ Geotracker 2 File
☐ Other (Specify) _____

Cost Center: _____ Global ID: _____

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: | 2/24/15 | 1040 | 1. Received By: | 2/24/15 | 1040 |
| 2. Relinquished By: Belvia Ott | 2/24/15 | 1735 | 2. Received By: | 225/15 | 0900 |
| 3. Relinquished By: | | | 3. Received By: | | |

# BC Laboratories, Inc. — Chain of Custody Form

**RUSH!**

Page 2 of 3

*Required Fields

| | |
|---|---|
| Report To: Client:* WellTest, Inc. | Project Description:* Bstove Property |
| Attn:* Bill Dugan | Project Code:* 4409 |
| Street Address:* PO Box 8548 | Sampler (s):* Forrest Cook |
| City:* San Jose State:* CA Zip:* 95155 | |
| Phone#:*(408 ) 460 - 1884 Fax#: ( ) - | |
| Email Address: dugan@welltest.biz | |
| Submission #: 15-04579 | |

**Billing**
Client:* WellTest, Inc.
Attn:* Bill Dugan
Address:* PO Box 8548
City:* San Jose State:* CA Zip:* 95155
Are there any tests with holding times? less than or equal to 48 hours? ☐ Yes ☑ No
*Standard Turnaround = 10

| Sample # | Sample Description | Date | Time | Matrix* | TPHd+MBTEX by 8260b | TRPH w/silica gel | TPHmo w/silica gel Lead | Notes |
|---|---|---|---|---|---|---|---|---|
| -10 | AREA B-NW wall d 4.0 | 2/23/15 | 11:15 | SO:1 | X | X | X | |
| -11 | AREA B-NE wall d 4.0 | | 11:16 | | X | X | X | |
| -12 | AREA B-SW wall d 4.0 | | 11:19 | | X | X | X | 5 Day Turnaround |
| -13 | AREA B-SE wall d 4.0 | | 11:18 | | X | X | X | |
| -14 | AREA B-Bot Mid d 5.0 | | 11:20 | | X | X | X | |
| -15 | AREA C-NW wall d 4.0 | 2/23/15 | 11:47 | SO:1 | X | X | X | |
| -16 | AREA C-NE wall d 4.0 | | 11:48 | | X | X | X | |
| -17 | AREA C-SW wall d 4.0 | | 11:51 | | X | X | X | |
| -18 | AREA C-SE wall d 4.0 | | 11:49 | | X | X | X | |
| -19 | AREA C-Bot Mid d 5.0 | | 11:52 | | X | X | X | |

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:*** ☐ 24 Hr Rush ☐ 48 Hr Rush ☐ 3-5 Day Rush ☑ Normal (10 – Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:

☐ MBU Site
☐ CVX RCRA
☑ Geotracker 5 File (CA Default)
☐ Geotracker 2 File
☐ Other (Specify) _____

Cost Center: _____ Global ID: _____

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: | 2/24/15 | 1040 | 1. Received By: BC | 2/24/15 | 1040 |
| 2. Relinquished By: BC Bellvia O/T | 2/24/15 | 1735 | 2. Received By: | 2/25/15 | 0900 |
| 3. Relinquished By: | | | 3. Received By: | | |

# Chain of Custody Form

RUSH

Page 3 of 3

BC Laboratories, Inc.

*Required Fields

| | |
|---|---|
| Report To: Client:* WellTest, Inc. | Project Description:* Batese Property |
| Attn:* Bill Dugan | |
| Street Address:* PO Box 8548 | Project Code:* 4409 |
| City:* San Jose State:* CA Zip:* 95155 | |
| Phone#:* (408) 460 - 1884 Fax#: ( ) - | Sampler (s):* Forrest Cook |
| Email Address: dugan@welltest.biz | |
| Submission #: 15-04579 | |

**Billing**
Client:* WellTest, Inc.
Attn:* Bill Dugan
Address:* PO Box 8548
City:* San Jose State:* CA Zip:* 95155
Are there any tests with holding times? less than or equal to 48 hours? ☐ Yes ☑ No
*Standard Turnaround = 10

| Sample # | Sample Description | Date | Time | Matrix* | Analysis Requested: TPHg + MBTEX by 8260b | TPHd w/silica gel | TPHmo w/silica gel | Lead | Arsenic | Chrom VI | Total Chrom | Zinc | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -20 | AREA D-NW wall 5.0 | 2/12/15 | 10:13 | So:1 | X | X | X | | | | | | |
| -21 | AREA D-NE wall 5.0 | | 10:17 | | X | X | X | | | | | | |
| -22 | AREA D-SE wall 5.0 | | 10:16 | | X | X | X | | | | | | |
| -23 | AREA D-SW wall 5.0 | | 10:15 | | X | X | X | | | | | | |
| -24 | AREA D-Bot Mid @ 10.0 | | 10:18 | | X | X | X | | | | | | |
| -25 | AREA E-NE wall 2.0 | | 10:36 | | | | | X | X | | | X | 5 DAY Turnaround |
| -26 | AREA E-NW wall 2.0 | | 10:37 | | | | | X | X | | | X | |
| -27 | AREA E-SW wall 2.0 | | 10:35 | | | | | X | X | | | X | |
| -28 | AREA E-SE wall 2.0 | | 10:35 | | | | | X | X | | | X | |
| -29 | AREA E-Bot Mid @ 4.0 | | 10:39 | | | | | X | X | | | X | |
| -30 | AREA 4-JB-1 @ 3.0 | | 14:00 | | | | | | | X | X | | |

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:*** ☐ 24 Hr Rush ☐ 48 Hr Rush ☐ 3-5 Day Rush ☑ Normal (10 – Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:

☐ MBU Site
☐ CVX RCRA
☑ Geotracker 5 File (CA Default)
☐ Geotracker 2 File
☐ Other (Specify) _____

Cost Center: _____ Global ID: _____

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: | 2/24/15 | 1040 | 1. Received By: | 2/24/15 | 1040 |
| 2. Relinquished By: BC via Off | 2/24/15 | 1735 | 2. Received By: | 2/25/15 | 0900 |
| 3. Relinquished By: | | | 3. Received By: | | |

**Chain of Custody and Cooler Receipt Form for 1504579 Page 4 of 6**

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 3

Submission #: 15-04579

**SHIPPING INFORMATION**
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☑ (Specify) ONTRAC

**SHIPPING CONTAINER**
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

**FREE LIQUID**
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes No ☐ Containers ☑ Intact? Yes No None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 2'25'15

Temperature: (A) 3.6 °C / (C) 3.4 °C Analyst Init MVB 0900

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT TOX | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz Amber EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT AMBER | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | |
| SOIL SLEEVE | A | A | A | A | A | A | A | A | A | A |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| Summa Canister | | | | | | | | | | |

Comments: -5, 3-7 was received in plastic bag w/ no caps on ends of sleeve

**Chain of Custody and Cooler Receipt Form for 1504579 Page 5 of 6**

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 of 2

Submission #: 15-04579

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Federal Express ☐ UPS ☐ Hand Delivery ☐<br>BC Lab Field Service ☐ Other ☑ (Specify) OnTrac | Ice Chest ☑ None ☐ Box ☐<br>Other ☐ (Specify) | YES ☐ NO ☐ |

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 2'25'15

Temperature: (A) 3.6 °C / (C) 3.4 °C Analyst Init MVB 0900

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT GENERAL MINERAL/ GENERAL | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT TOX | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz Amber EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT AMBER | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | |
| SOIL SLEEVE | A | A | A | A | A | A | A | A | A | A |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| Summa Canister | | | | | | | | | | |

Comments:

**Chain of Custody and Cooler Receipt Form for 1504579 Page 6 of 6**

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 of 3

Submission #: 15-04579

**SHIPPING INFORMATION**
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☑ (Specify) ONTRAC

**SHIPPING CONTAINER**
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

**FREE LIQUID**
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 2.08

Temperature: (A) 3.6 °C / (C) 3.4 °C

Date/Time 2'25'15

Analyst Init MVB 0900

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| QT GENERAL MINERAL/ GENERAL | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT TOX | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz Amber EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT AMBER | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | |
| SOIL SLEEVE | A | A | A | A | A | A | A | A | A | A |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| Summa Canister | | | | | | | | | | |

Comments: -30 was received in a bag with not caps or sleeve

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1504579-01** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-NE Wall d6.5 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-02** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-NE Wall d10.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-03** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-NW Wall d6.5 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-04** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-NW Wall d10.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-05** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-SW Wall d6.5 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-06** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-SW Wall d10.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-07** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-SE Wall d6.5 | **Lab Matrix:** | Solids |
| | **Sampled By:** | WTI | **Sample Type:** | Soil |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1504579-08** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-SE Wall d10.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-09** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 12:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area A-BotMid d10.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-10** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area B-NW Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-11** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area B-NE Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-12** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area B-SW Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-13** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area B-SE Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-14** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area B-BotMid d5.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1504579-15** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area C-NW Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-16** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:48 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area C-NE Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-17** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area C-SW Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-18** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area C-SE Wall d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-19** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 11:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area C-BotMid d5.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-20** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area D-NW Wall d5.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-21** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area D-NE Wall d5.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1504579-22** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area D-SE Wall d5.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-23** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area D-SW Wall d5.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-24** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area D-BotMid d10.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-25** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area E-NE Wall d2.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-26** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area E-NW Wall d2.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-27** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area E-SW Wall d2.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-28** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area E-SE Wall d2.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1504579-29** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 10:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area E-BotMid d4.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |
| **1504579-30** | **COC Number:** | --- | **Receive Date:** | 02/25/2015 09:00 |
| | **Project Number:** | Batarse Property | **Sampling Date:** | 02/23/2015 14:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | Area 4-B-1D3.0 | **Lab Matrix:** | Solids |
| | **Sampled By:** | F. Cook of WTI | **Sample Type:** | Soil |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-01 | **Client Sample Name:** Batarse Property, Area A-NE Wall d6.5, 2/23/2015 12:12:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 115 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 104 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 106 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 11:09 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-01 | **Client Sample Name:** Batarse Property, Area A-NE Wall d6.5, 2/23/2015 12:12:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 81.4 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 14:14 | MWB | GC-13 | 0.983 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-01 | **Client Sample Name:** Batarse Property, Area A-NE Wall d6.5, 2/23/2015 12:12:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.3** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:43 | ARD | PE-OP3 | 0.943 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-02 | **Client Sample Name:** Batarse Property, Area A-NE Wall d10.0, 2/23/2015 12:16:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 97.4 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 105 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 11:32 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-02 | **Client Sample Name:** Batarse Property, Area A-NE Wall d10.0, 2/23/2015 12:16:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 92.5 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 13:51 | MWB | GC-13 | 0.980 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-02 | **Client Sample Name:** Batarse Property, Area A-NE Wall d10.0, 2/23/2015 12:16:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.3** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:45 | ARD | PE-OP3 | 0.926 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-03 | **Client Sample Name:** Batarse Property, Area A-NW Wall d6.5, 2/23/2015 12:10:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| **Total Purgeable Petroleum Hydrocarbons** | **0.31** | **mg/kg** | **0.20** | **0.020** | **Luft-GC/MS** | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 95.6 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.4 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 108 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 11:54 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-03 | **Client Sample Name:** Batarse Property, Area A-NW Wall d6.5, 2/23/2015 12:10:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 86.4 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 14:36 | MWB | GC-13 | 0.963 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-03 | **Client Sample Name:** Batarse Property, Area A-NW Wall d6.5, 2/23/2015 12:10:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.8** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:46 | ARD | PE-OP3 | 0.971 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-04 | **Client Sample Name:** Batarse Property, Area A-NW Wall d10.0, 2/23/2015 12:19:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 99.9 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.8 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 107 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 12:17 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-04 | **Client Sample Name:** Batarse Property, Area A-NW Wall d10.0, 2/23/2015 12:19:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **TPH - Diesel (FFP)** | **1.8** | **mg/kg** | **2.0** | **0.67** | **Luft/FFP** | ND | **J,A52** | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 79.9 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 14:59 | MWB | GC-13 | 0.993 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-04 | **Client Sample Name:** Batarse Property, Area A-NW Wall d10.0, 2/23/2015 12:19:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.0** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:48 | ARD | PE-OP3 | 0.980 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-05 | **Client Sample Name:** Batarse Property, Area A-SW Wall d6.5, 2/23/2015 12:14:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| **Total Purgeable Petroleum Hydrocarbons** | **0.13** | **mg/kg** | **0.20** | **0.020** | **Luft-GC/MS** | ND | **J** | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 101 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 12:39 | XDC | MS-V3 | 1 | BYB2248 |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-05 | **Client Sample Name:** Batarse Property, Area A-SW Wall d6.5, 2/23/2015 12:14:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **TPH - Diesel (FFP)** | **1.8** | **mg/kg** | **2.0** | **0.67** | **Luft/FFP** | ND | **J,A52** | 1 |
| **TPH - Motor Oil** | **4.7** | **mg/kg** | **10** | **1.2** | **Luft/FFP** | ND | **J** | 1 |
| Tetracosane (Surrogate) | 91.8 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 18:24 | MWB | GC-13 | 1.007 | BYB2529 |
| 2 | Luft/FFP | 02/26/15 | 02/28/15 15:22 | MWB | GC-13 | 1.007 | BYB2529 |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-05 | **Client Sample Name:** Batarse Property, Area A-SW Wall d6.5, 2/23/2015 12:14:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.6** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:49 | ARD | PE-OP3 | 0.935 | BYB2394 |

Well Test, Inc.
1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-06 | **Client Sample Name:** Batarse Property, Area A-SW Wall d10.0, 2/23/2015 12:20:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 96.6 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 13:01 | XDC | MS-V3 | 1 | BYB2248 |

Well Test, Inc.
1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-06 | **Client Sample Name:** Batarse Property, Area A-SW Wall d10.0, 2/23/2015 12:20:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 87.7 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 15:45 | MWB | GC-13 | 0.983 | BYB2529 |

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1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-06 | **Client Sample Name:** Batarse Property, Area A-SW Wall d10.0, 2/23/2015 12:20:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.8** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:50 | ARD | PE-OP3 | 0.952 | BYB2394 |

Well Test, Inc.
1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-07 | **Client Sample Name:** Batarse Property, Area A-SE Wall d6.5, 2/23/2015 12:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 94.8 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 97.4 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 13:24 | XDC | MS-V3 | 1 | BYB2248 |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-07 | **Client Sample Name:** Batarse Property, Area A-SE Wall d6.5, 2/23/2015 12:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 85.0 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 17:38 | MWB | GC-13 | 0.963 | BYB2529 |

Well Test, Inc.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-07 | **Client Sample Name:** Batarse Property, Area A-SE Wall d6.5, 2/23/2015 12:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.8** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:51 | ARD | PE-OP3 | 0.943 | BYB2394 |

Well Test, Inc.
1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-08 | **Client Sample Name:** Batarse Property, Area A-SE Wall d10.0, 2/23/2015 12:18:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| **Total Purgeable Petroleum Hydrocarbons** | **0.18** | **mg/kg** | **0.20** | **0.020** | **Luft-GC/MS** | ND | **J** | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 99.0 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 108 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 13:46 | XDC | MS-V3 | 1 | BYB2248 |

Well Test, Inc.
1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-08 | **Client Sample Name:** Batarse Property, Area A-SE Wall d10.0, 2/23/2015 12:18:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 87.1 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 18:01 | MWB | GC-13 | 0.960 | BYB2529 |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-08 | **Client Sample Name:** Batarse Property, Area A-SE Wall d10.0, 2/23/2015 12:18:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.1** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 08:59 | ARD | PE-OP3 | 0.990 | BYB2394 |

Well Test, Inc.
1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-09 | **Client Sample Name:** Batarse Property, Area A-BotMid d10.0, 2/23/2015 12:21:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 108 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 14:43 | XDC | MS-V3 | 1 | BYB2248 |

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1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-09 | **Client Sample Name:** Batarse Property, Area A-BotMid d10.0, 2/23/2015 12:21:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **TPH - Diesel (FFP)** | **1.7** | **mg/kg** | **2.0** | **0.67** | **Luft/FFP** | ND | **J** | 1 |
| **TPH - Motor Oil** | **4.6** | **mg/kg** | **10** | **1.2** | **Luft/FFP** | ND | **J** | 1 |
| Tetracosane (Surrogate) | 89.1 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 18:24 | MWB | GC-13 | 0.983 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-09 | **Client Sample Name:** Batarse Property, Area A-BotMid d10.0, 2/23/2015 12:21:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.6** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:00 | ARD | PE-OP3 | 0.962 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-10 | **Client Sample Name:** Batarse Property, Area B-NW Wall d4.0, 2/23/2015 11:15:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 111 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 96.6 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 09:47 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-10 | **Client Sample Name:** Batarse Property, Area B-NW Wall d4.0, 2/23/2015 11:15:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 92.0 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 18:47 | MWB | GC-13 | 1 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-11 | **Client Sample Name:** Batarse Property, Area B-NE Wall d4.0, 2/23/2015 11:16:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 116 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 99.2 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 10:09 | ADC | MS-V2 | 5 | BYB2011 |

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1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-11 | **Client Sample Name:** Batarse Property, Area B-NE Wall d4.0, 2/23/2015 11:16:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 79.6 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 19:09 | MWB | GC-13 | 0.997 | BYB2529 |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-12 | **Client Sample Name:** Batarse Property, Area B-SW Wall d4.0, 2/23/2015 11:19:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 111 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 96.5 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 13:29 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-12 | **Client Sample Name:** Batarse Property, Area B-SW Wall d4.0, 2/23/2015 11:19:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **TPH - Diesel (FFP)** | **1.7** | **mg/kg** | **4.0** | **1.3** | **Luft/FFP** | ND | **J,A01** | 1 |
| **TPH - Motor Oil** | **10** | **mg/kg** | **20** | **2.4** | **Luft/FFP** | ND | **J,A01** | 1 |
| Tetracosane (Surrogate) | 85.3 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 03/03/15 04:59 | MWB | GC-13 | 2.027 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-13 | **Client Sample Name:** Batarse Property, Area B-SE Wall d4.0, 2/23/2015 11:18:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 107 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.9 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 96.9 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 13:52 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-13 | **Client Sample Name:** Batarse Property, Area B-SE Wall d4.0, 2/23/2015 11:18:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 85.4 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 19:32 | MWB | GC-13 | 0.947 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-14 | **Client Sample Name:** Batarse Property, Area B-BotMid d5.0, 2/23/2015 11:20:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 105 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.5 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 91.4 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 11:16 | ADC | MS-V2 | 5 | BYB2011 |

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San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-14 | **Client Sample Name:** Batarse Property, Area B-BotMid d5.0, 2/23/2015 11:20:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 87.5 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 19:55 | MWB | GC-13 | 0.970 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-15 | **Client Sample Name:** Batarse Property, Area C-NW Wall d4.0, 2/23/2015 11:47:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 115 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 94.3 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/25/15 17:55 | ADC | MS-V2 | 1 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-15 | **Client Sample Name:** Batarse Property, Area C-NW Wall d4.0, 2/23/2015 11:47:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 79.8 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 20:18 | MWB | GC-13 | 1 | BYB2529 |

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1180 Delmas Ave.
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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-16 | **Client Sample Name:** Batarse Property, Area C-NE Wall d4.0, 2/23/2015 11:48:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 106 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 99.9 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 12:00 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-16 | **Client Sample Name:** Batarse Property, Area C-NE Wall d4.0, 2/23/2015 11:48:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 83.6 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 20:41 | MWB | GC-13 | 0.997 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-17 | **Client Sample Name:** Batarse Property, Area C-SW Wall d4.0, 2/23/2015 11:51:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 105 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 98.9 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 12:22 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-17 | **Client Sample Name:** Batarse Property, Area C-SW Wall d4.0, 2/23/2015 11:51:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 78.4 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 09:19 | MWB | GC-13 | 1 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-18 | **Client Sample Name:** Batarse Property, Area C-SE Wall d4.0, 2/23/2015 11:49:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 105 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 99.5 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 12:45 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-18 | **Client Sample Name:** Batarse Property, Area C-SE Wall d4.0, 2/23/2015 11:49:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 86.0 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 09:42 | MWB | GC-13 | 0.980 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-19 | **Client Sample Name:** Batarse Property, Area C-BotMid d5.0, 2/23/2015 11:52:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1a | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1a | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1a | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1a | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1a | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1a | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1a | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 110 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 104 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 98.1 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/26/15 13:07 | ADC | MS-V2 | 5 | BYB2011 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-19 | **Client Sample Name:** Batarse Property, Area C-BotMid d5.0, 2/23/2015 11:52:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 84.0 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 10:04 | MWB | GC-13 | 0.993 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-20 | **Client Sample Name:** Batarse Property, Area D-NW Wall d5.0, 2/23/2015 10:13:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 104 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/25/15 17:09 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-20 | **Client Sample Name:** Batarse Property, Area D-NW Wall d5.0, 2/23/2015 10:13:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 92.6 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 02/28/15 10:27 | MWB | GC-13 | 0.993 | BYB2529 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-21 | **Client Sample Name:** Batarse Property, Area D-NE Wall d5.0, 2/23/2015 10:17:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1 | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1 | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1 | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1 | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1 | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1 | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1 | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1 | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 93.5 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.6 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/27/15 11:06 | XDC | MS-V3 | 5 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-21 | **Client Sample Name:** Batarse Property, Area D-NE Wall d5.0, 2/23/2015 10:17:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **TPH - Diesel (FFP)** | **2.3** | **mg/kg** | **2.0** | **0.67** | **Luft/FFP** | ND | **A52** | 1 |
| **TPH - Motor Oil** | **3.8** | **mg/kg** | **10** | **1.2** | **Luft/FFP** | ND | **J** | 1 |
| Tetracosane (Surrogate) | 81.2 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 03/01/15 00:51 | MWB | GC-13 | 0.990 | BYB2536 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-22 | **Client Sample Name:** Batarse Property, Area D-SE Wall d5.0, 2/23/2015 10:16:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 97.5 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.8 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 105 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/25/15 17:53 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-22 | **Client Sample Name:** Batarse Property, Area D-SE Wall d5.0, 2/23/2015 10:16:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 79.0 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 03/01/15 01:14 | MWB | GC-13 | 0.997 | BYB2536 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-23 | **Client Sample Name:** Batarse Property, Area D-SW Wall d5.0, 2/23/2015 10:15:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | ND | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 0.20 | 0.020 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 99.6 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 101 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/25/15 18:16 | XDC | MS-V3 | 1 | BYB2248 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-23 | **Client Sample Name:** Batarse Property, Area D-SW Wall d5.0, 2/23/2015 10:15:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 91.6 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 03/01/15 01:37 | MWB | GC-13 | 0.970 | BYB2536 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1504579-24 | **Client Sample Name:** Batarse Property, Area D-BotMid d10.0, 2/23/2015 10:18:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.025 | 0.0065 | EPA-8260B | ND | A10,Z1 | 1 |
| Ethylbenzene | ND | mg/kg | 0.025 | 0.0075 | EPA-8260B | ND | A10,Z1 | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.025 | 0.0025 | EPA-8260B | ND | A10,Z1 | 1 |
| Toluene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1 | 1 |
| Total Xylenes | ND | mg/kg | 0.050 | 0.017 | EPA-8260B | ND | A10,Z1 | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.025 | 0.011 | EPA-8260B | ND | A10,Z1 | 1 |
| o-Xylene | ND | mg/kg | 0.025 | 0.0060 | EPA-8260B | ND | A10,Z1 | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | mg/kg | 1.0 | 0.10 | Luft-GC/MS | ND | A10,Z1 | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 97.6 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 02/25/15 | 02/27/15 11:29 | XDC | MS-V3 | 5 | BYB2015 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

**BCL Sample ID:** 1504579-24 | **Client Sample Name:** Batarse Property, Area D-BotMid d10.0, 2/23/2015 10:18:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Diesel (FFP) | ND | mg/kg | 2.0 | 0.67 | Luft/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 10 | 1.2 | Luft/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 80.5 | % | 20 - 145 (LCL - UCL) | | Luft/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | Luft/FFP | 02/26/15 | 03/01/15 02:00 | MWB | GC-13 | 1.010 | BYB2536 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-25 | **Client Sample Name:** Batarse Property, Area E-NE Wall d2.0, 2/23/2015 10:36:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | ND | | 1 |
| **Lead** | **66** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |
| **Zinc** | **100** | **mg/kg** | **2.5** | **0.087** | **EPA-6010B** | 0.43 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:02 | ARD | PE-OP3 | 0.990 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-26 | **Client Sample Name:** Batarse Property, Area E-NW Wall d2.0, 2/23/2015 10:37:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.3** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | ND | | 1 |
| **Lead** | **14** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |
| **Zinc** | **78** | **mg/kg** | **2.5** | **0.087** | **EPA-6010B** | 0.42 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:03 | ARD | PE-OP3 | 0.971 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-27 | **Client Sample Name:** Batarse Property, Area E-SW Wall d2.0, 2/23/2015 10:35:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | ND | | 1 |
| **Lead** | **11** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |
| **Zinc** | **43** | **mg/kg** | **2.5** | **0.087** | **EPA-6010B** | 0.42 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:05 | ARD | PE-OP3 | 0.952 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-28 | **Client Sample Name:** Batarse Property, Area E-SE Wall d2.0, 2/23/2015 10:35:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.3** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | ND | | 1 |
| **Lead** | **25** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |
| **Zinc** | **70** | **mg/kg** | **2.5** | **0.087** | **EPA-6010B** | 0.42 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:06 | ARD | PE-OP3 | 0.962 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-29 | **Client Sample Name:** Batarse Property, Area E-BotMid d4.0, 2/23/2015 10:39:00AM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | ND | | 1 |
| **Lead** | **6.9** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | ND | | 1 |
| **Zinc** | **43** | **mg/kg** | **2.5** | **0.087** | **EPA-6010B** | 0.41 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:08 | ARD | PE-OP3 | 0.935 | BYB2394 |

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**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Total Concentrations (TTLC)

**BCL Sample ID:** 1504579-30 | **Client Sample Name:** Batarse Property, Area 4-B-1D3.0, 2/23/2015 2:00:00PM, F. Cook

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Chromium** | **32** | **mg/kg** | **0.50** | **0.050** | **EPA-6010B** | ND | | 1 |
| **Total Hexavalent Chromium** | **0.88** | **mg/kg** | **1.0** | **0.15** | **EPA-7199** | 0.23 | **J** | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 02/26/15 | 02/27/15 09:09 | ARD | PE-OP3 | 0.980 | BYB2394 |
| 2 | EPA-7199 | 02/27/15 | 03/03/15 15:46 | BMW | IC-4 | 1 | BYB2528 |

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

**Reported:** 03/06/2015 11:54
Project: Soil Samples
Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2011** | | | | | | |
| Benzene | BYB2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Ethylbenzene | BYB2011-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Methyl t-butyl ether | BYB2011-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Toluene | BYB2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Total Xylenes | BYB2011-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BYB2011-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BYB2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Total Purgeable Petroleum Hydrocarbons | BYB2011-BLK1 | ND | mg/kg | 0.20 | 0.020 | |
| **1,2-Dichloroethane-d4 (Surrogate)** | **BYB2011-BLK1** | **99.5** | % | **70 - 121 (LCL - UCL)** | | |
| **Toluene-d8 (Surrogate)** | **BYB2011-BLK1** | **101** | % | **81 - 117 (LCL - UCL)** | | |
| **4-Bromofluorobenzene (Surrogate)** | **BYB2011-BLK1** | **94.0** | % | **74 - 121 (LCL - UCL)** | | |
| **QC Batch ID: BYB2015** | | | | | | |
| Benzene | BYB2015-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Ethylbenzene | BYB2015-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Methyl t-butyl ether | BYB2015-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Toluene | BYB2015-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Total Xylenes | BYB2015-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BYB2015-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BYB2015-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Total Purgeable Petroleum Hydrocarbons | BYB2015-BLK1 | ND | mg/kg | 0.20 | 0.020 | |
| **1,2-Dichloroethane-d4 (Surrogate)** | **BYB2015-BLK1** | **87.8** | % | **70 - 121 (LCL - UCL)** | | |
| **Toluene-d8 (Surrogate)** | **BYB2015-BLK1** | **99.1** | % | **81 - 117 (LCL - UCL)** | | |
| **4-Bromofluorobenzene (Surrogate)** | **BYB2015-BLK1** | **102** | % | **74 - 121 (LCL - UCL)** | | |
| **QC Batch ID: BYB2248** | | | | | | |
| Benzene | BYB2248-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Ethylbenzene | BYB2248-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Methyl t-butyl ether | BYB2248-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Toluene | BYB2248-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Total Xylenes | BYB2248-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BYB2248-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BYB2248-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Total Purgeable Petroleum Hydrocarbons | BYB2248-BLK1 | ND | mg/kg | 0.20 | 0.020 | |
| **1,2-Dichloroethane-d4 (Surrogate)** | **BYB2248-BLK1** | **87.1** | % | **70 - 121 (LCL - UCL)** | | |

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**Reported:** 03/06/2015 11:54
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Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2248** | | | | | | |
| Toluene-d8 (Surrogate) | BYB2248-BLK1 | 101 | % | 81 - 117 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BYB2248-BLK1 | 103 | % | 74 - 121 (LCL - UCL) | | |

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# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2011** | | | | | | | | | | |
| Benzene | BYB2011-BS1 | LCS | 0.12875 | 0.12500 | mg/kg | 103 | | 70 - 130 | | |
| Toluene | BYB2011-BS1 | LCS | 0.12670 | 0.12500 | mg/kg | 101 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYB2011-BS1 | LCS | 0.050500 | 0.050000 | mg/kg | 101 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BYB2011-BS1 | LCS | 0.050780 | 0.050000 | mg/kg | 102 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BYB2011-BS1 | LCS | 0.049430 | 0.050000 | mg/kg | 98.9 | | 74 - 121 | | |
| **QC Batch ID: BYB2015** | | | | | | | | | | |
| Benzene | BYB2015-BS1 | LCS | 0.13089 | 0.12500 | mg/kg | 105 | | 70 - 130 | | |
| Toluene | BYB2015-BS1 | LCS | 0.11731 | 0.12500 | mg/kg | 93.8 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYB2015-BS1 | LCS | 0.049720 | 0.050000 | mg/kg | 99.4 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BYB2015-BS1 | LCS | 0.050130 | 0.050000 | mg/kg | 100 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BYB2015-BS1 | LCS | 0.052980 | 0.050000 | mg/kg | 106 | | 74 - 121 | | |
| **QC Batch ID: BYB2248** | | | | | | | | | | |
| Benzene | BYB2248-BS1 | LCS | 0.13807 | 0.12500 | mg/kg | 110 | | 70 - 130 | | |
| Toluene | BYB2248-BS1 | LCS | 0.12695 | 0.12500 | mg/kg | 102 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYB2248-BS1 | LCS | 0.049990 | 0.050000 | mg/kg | 100 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BYB2248-BS1 | LCS | 0.050900 | 0.050000 | mg/kg | 102 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BYB2248-BS1 | LCS | 0.051630 | 0.050000 | mg/kg | 103 | | 74 - 121 | | |

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# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2011** | Used client sample: N | | | | | | | | | | |
| Benzene | MS | 1502150-31 | ND | 0.11136 | 0.12500 | mg/kg | | 89.1 | | 70 - 130 | |
| | MSD | 1502150-31 | ND | 0.12327 | 0.12500 | mg/kg | 10.2 | 98.6 | 20 | 70 - 130 | |
| Toluene | MS | 1502150-31 | ND | 0.11409 | 0.12500 | mg/kg | | 91.3 | | 70 - 130 | |
| | MSD | 1502150-31 | ND | 0.12427 | 0.12500 | mg/kg | 8.5 | 99.4 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1502150-31 | ND | 0.049220 | 0.050000 | mg/kg | | 98.4 | | 70 - 121 | |
| | MSD | 1502150-31 | ND | 0.050450 | 0.050000 | mg/kg | 2.5 | 101 | | 70 - 121 | |
| Toluene-d8 (Surrogate) | MS | 1502150-31 | ND | 0.049680 | 0.050000 | mg/kg | | 99.4 | | 81 - 117 | |
| | MSD | 1502150-31 | ND | 0.050670 | 0.050000 | mg/kg | 2.0 | 101 | | 81 - 117 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1502150-31 | ND | 0.049740 | 0.050000 | mg/kg | | 99.5 | | 74 - 121 | |
| | MSD | 1502150-31 | ND | 0.049060 | 0.050000 | mg/kg | 1.4 | 98.1 | | 74 - 121 | |
| **QC Batch ID: BYB2015** | Used client sample: N | | | | | | | | | | |
| Benzene | MS | 1502150-43 | ND | 0.11267 | 0.12500 | mg/kg | | 90.1 | | 70 - 130 | |
| | MSD | 1502150-43 | ND | 0.12195 | 0.12500 | mg/kg | 7.9 | 97.6 | 20 | 70 - 130 | |
| Toluene | MS | 1502150-43 | ND | 0.11047 | 0.12500 | mg/kg | | 88.4 | | 70 - 130 | |
| | MSD | 1502150-43 | ND | 0.11609 | 0.12500 | mg/kg | 5.0 | 92.9 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1502150-43 | ND | 0.045000 | 0.050000 | mg/kg | | 90.0 | | 70 - 121 | |
| | MSD | 1502150-43 | ND | 0.046530 | 0.050000 | mg/kg | 3.3 | 93.1 | | 70 - 121 | |
| Toluene-d8 (Surrogate) | MS | 1502150-43 | ND | 0.049450 | 0.050000 | mg/kg | | 98.9 | | 81 - 117 | |
| | MSD | 1502150-43 | ND | 0.050330 | 0.050000 | mg/kg | 1.8 | 101 | | 81 - 117 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1502150-43 | ND | 0.051650 | 0.050000 | mg/kg | | 103 | | 74 - 121 | |
| | MSD | 1502150-43 | ND | 0.052340 | 0.050000 | mg/kg | 1.3 | 105 | | 74 - 121 | |
| **QC Batch ID: BYB2248** | Used client sample: N | | | | | | | | | | |
| Benzene | MS | 1502150-44 | ND | 0.13488 | 0.12500 | mg/kg | | 108 | | 70 - 130 | |
| | MSD | 1502150-44 | ND | 0.13109 | 0.12500 | mg/kg | 2.8 | 105 | 20 | 70 - 130 | |
| Toluene | MS | 1502150-44 | ND | 0.12903 | 0.12500 | mg/kg | | 103 | | 70 - 130 | |
| | MSD | 1502150-44 | ND | 0.13053 | 0.12500 | mg/kg | 1.2 | 104 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1502150-44 | ND | 0.048950 | 0.050000 | mg/kg | | 97.9 | | 70 - 121 | |
| | MSD | 1502150-44 | ND | 0.048600 | 0.050000 | mg/kg | 0.7 | 97.2 | | 70 - 121 | |
| Toluene-d8 (Surrogate) | MS | 1502150-44 | ND | 0.051290 | 0.050000 | mg/kg | | 103 | | 81 - 117 | |
| | MSD | 1502150-44 | ND | 0.051240 | 0.050000 | mg/kg | 0.1 | 102 | | 81 - 117 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1502150-44 | ND | 0.050860 | 0.050000 | mg/kg | | 102 | | 74 - 121 | |
| | MSD | 1502150-44 | ND | 0.051600 | 0.050000 | mg/kg | 1.4 | 103 | | 74 - 121 | |

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**Reported:** 03/06/2015 11:54
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Project Number: 4409 - Batarse Property
Project Manager: Bill Dugan

# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2529** | | | | | | |
| TPH - Diesel (FFP) | BYB2529-BLK1 | ND | mg/kg | 2.0 | 0.67 | |
| TPH - Motor Oil | BYB2529-BLK1 | ND | mg/kg | 10 | 1.2 | |
| **Tetracosane (Surrogate)** | **BYB2529-BLK1** | **92.5** | % | **20 - 145 (LCL - UCL)** | | |
| **QC Batch ID: BYB2536** | | | | | | |
| TPH - Diesel (FFP) | BYB2536-BLK1 | ND | mg/kg | 2.0 | 0.67 | |
| TPH - Motor Oil | BYB2536-BLK1 | ND | mg/kg | 10 | 1.2 | |
| **Tetracosane (Surrogate)** | **BYB2536-BLK1** | **73.3** | % | **20 - 145 (LCL - UCL)** | | |

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# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2529** | | | | | | | | | | |
| TPH - Diesel (FFP) | BYB2529-BS1 | LCS | 12.963 | 16.835 | mg/kg | 77.0 | | 50 - 136 | | |
| Tetracosane (Surrogate) | BYB2529-BS1 | LCS | 0.65907 | 0.67340 | mg/kg | 97.9 | | 20 - 145 | | |
| **QC Batch ID: BYB2536** | | | | | | | | | | |
| TPH - Diesel (FFP) | BYB2536-BS1 | LCS | 12.586 | 16.667 | mg/kg | 75.5 | | 50 - 136 | | |
| Tetracosane (Surrogate) | BYB2536-BS1 | LCS | 0.51884 | 0.66667 | mg/kg | 77.8 | | 20 - 145 | | |

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# Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2529** | Used client sample: Y - Description: Area A-NE Wall d10.0, 02/23/2015 12:16 | | | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1504579-02 | ND | 13.162 | 16.779 | mg/kg | | 78.4 | | 40 - 137 | |
| | MSD | 1504579-02 | ND | 12.565 | 16.835 | mg/kg | 4.6 | 74.6 | 30 | 40 - 137 | |
| Tetracosane (Surrogate) | MS | 1504579-02 | ND | 0.60493 | 0.67114 | mg/kg | | 90.1 | | 20 - 145 | |
| | MSD | 1504579-02 | ND | 0.52461 | 0.67340 | mg/kg | 14.2 | 77.9 | | 20 - 145 | |
| **QC Batch ID: BYB2536** | Used client sample: N | | | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1502150-47 | ND | 15.165 | 16.892 | mg/kg | | 89.8 | | 40 - 137 | |
| | MSD | 1502150-47 | ND | 14.328 | 16.892 | mg/kg | 5.7 | 84.8 | 30 | 40 - 137 | |
| Tetracosane (Surrogate) | MS | 1502150-47 | ND | 0.59391 | 0.67568 | mg/kg | | 87.9 | | 20 - 145 | |
| | MSD | 1502150-47 | ND | 0.54876 | 0.67568 | mg/kg | 7.9 | 81.2 | | 20 - 145 | |

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# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2394** | | | | | | |
| Arsenic | BYB2394-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Chromium | BYB2394-BLK1 | ND | mg/kg | 0.50 | 0.050 | |
| Lead | BYB2394-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **Zinc** | **BYB2394-BLK1** | **0.43672** | **mg/kg** | **2.5** | **0.087** | **J** |
| **QC Batch ID: BYB2528** | | | | | | |
| **Total Hexavalent Chromium** | **BYB2528-BLK1** | **0.22600** | **mg/kg** | **1.0** | **0.15** | **J** |

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# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2394** | | | | | | | | | | |
| Arsenic | BYB2394-BS1 | LCS | 10.486 | 10.000 | mg/kg | 105 | | 75 - 125 | | |
| Chromium | BYB2394-BS1 | LCS | 113.34 | 100.00 | mg/kg | 113 | | 75 - 125 | | |
| Lead | BYB2394-BS1 | LCS | 107.32 | 100.00 | mg/kg | 107 | | 75 - 125 | | |
| Zinc | BYB2394-BS1 | LCS | 111.36 | 100.00 | mg/kg | 111 | | 75 - 125 | | |
| **QC Batch ID: BYB2528** | | | | | | | | | | |
| Total Hexavalent Chromium | BYB2528-BS1 | LCS | 40.536 | 40.000 | mg/kg | 101 | | 80 - 120 | | |

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# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BYB2394** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1504661-01 | 4.9019 | 5.0885 | | mg/kg | 3.7 | | 20 | | |
| | MS | 1504661-01 | 4.9019 | 13.424 | 9.8039 | mg/kg | | 86.9 | | 75 - 125 | |
| | MSD | 1504661-01 | 4.9019 | 13.619 | 9.8039 | mg/kg | 1.4 | 88.9 | 20 | 75 - 125 | |
| Chromium | DUP | 1504661-01 | 29.333 | 27.815 | | mg/kg | 5.3 | | 20 | | |
| | MS | 1504661-01 | 29.333 | 121.36 | 98.039 | mg/kg | | 93.9 | | 75 - 125 | |
| | MSD | 1504661-01 | 29.333 | 135.94 | 98.039 | mg/kg | 11.3 | 109 | 20 | 75 - 125 | |
| Lead | DUP | 1504661-01 | 7.5436 | 7.4700 | | mg/kg | 1.0 | | 20 | | |
| | MS | 1504661-01 | 7.5436 | 102.25 | 98.039 | mg/kg | | 96.6 | | 75 - 125 | |
| | MSD | 1504661-01 | 7.5436 | 99.015 | 98.039 | mg/kg | 3.2 | 93.3 | 20 | 75 - 125 | |
| Zinc | DUP | 1504661-01 | 43.498 | 41.733 | | mg/kg | 4.1 | | 20 | | |
| | MS | 1504661-01 | 43.498 | 135.72 | 98.039 | mg/kg | | 94.1 | | 75 - 125 | |
| | MSD | 1504661-01 | 43.498 | 137.29 | 98.039 | mg/kg | 1.2 | 95.7 | 20 | 75 - 125 | |
| **QC Batch ID: BYB2528** | Used client sample: N | | | | | | | | | | |
| Total Hexavalent Chromium | DUP | 1504521-01 | 0.48000 | 0.46000 | | mg/kg | 4.3 | | 20 | | J |
| | MS | 1504521-01 | 0.48000 | 40.830 | 40.000 | mg/kg | | 101 | | 75 - 125 | |
| | MSD | 1504521-01 | 0.48000 | 40.914 | 40.000 | mg/kg | 0.2 | 101 | 20 | 75 - 125 | |

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## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A01 | Detection and quantitation limits are raised due to sample dilution. |
| A10 | Detection and quantitation limits were raised due to matrix interference. |
| A52 | Chromatogram not typical of diesel. |
| Z1 | Samples were analyzed twice with matrix interference of the internal standards. |
| Z1a | The samples were analzyed at full concentration with matrix interference of the internal standards. Samples were analzyed at a 5:1 dilution with no matrix interference. |

# ATTACHMENT C

## Logs of Previous Borings in the Area of Excavations A through E

| Depth, feet | WELL CONSTRUCTION | Graphic Log | LITHOLOGY Description | SAMPLE DATA NUMBER | INTERVAL | PENETRATION RATE (Blows/ft.) |
|---|---|---|---|---|---|---|
| 0 | Type of Security: | | concrete | | | |
| | PID 4.0 ppm | SM | odor Silty sands (SM) [5Y 2.5/2] Black, moist loose, sub-rounded - rounded, poorly graded | | | |
| | | | Sandy clay (CL) [10YR3/1] Very Dark grey, Damp med stiff, 60% clay, 40% fine sand - med - low plas. | | | |
| 5 | | | color change [10YR3/3] Dr. Brown, Slightly mottled | | | |
| | 17.0 ppm | CL | odor, same as above | | | |
| 10 | | | | | | |
| | 4.0 ppm | SM | Slight odor (SM) silty sand [5Y 2.5/2] Black moist loose subrounded, poorly graded. | | | |
| 15 | | CL | sandy clay (CL) [10YR 3/2] Dr. Brown, ~~damp~~ wet - moist, med stiff, 90% clay, 10% fine sand, | | | |
| | | | no recovery. | | | no recovery |
| 20 | | CL | sandy clay (CL) [10YR3/2] Dk Brown wet - moist, med stiff, 80% clay 20% fine sand. | | | |
| | 4.0 ppm | | wet | | | |
| 25 | | | no recovery. | | | no recovery |
| | | SC | clayey sand, (SC) [10YR 4/4] Dk yellowish Brown, soft 70% fine sand, 30% clay, low-med plas | | | |
| 30 | | | Bottom of Boring 28' | | | |
| | | | Bottom 34' | | | |
| 35 | | | | | | |

Well Permit No.:
Date well drilled: 4/9/01
Date water level measured:
Well elevation:

Drilling Company: Vironex
Driller: Scott
Sampling Method: DP
Hammer Weight:

LF Geologist/Engineer: Ron

Sketch of Well Location:

FIELD LOG OF WELL CONSTRUCTION AND LITHOLOGY FOR SB-22

Project No. 1962.01

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

| Depth, feet | WELL CONSTRUCTION — Type of Security: | Graphic Log | LITHOLOGY — Description | SAMPLE DATA — NUMBER | INTERVAL | PENETRATION RATE (Blows/ft.) |
|---|---|---|---|---|---|---|
| 0 | | Fill | Fill gravelly sandy clay (CL) [10YR2/1] Black, Damp, soft, 60% clay, 40% fine sand, low med plac. | | | |
| 5 | | CL | | | | |
| 10 | | SP | color change [10YR3/4] Drk yellowish Brown, sand lense (SP) poorly graded sands, Dry, coarse-fine sand. | | | |
| | | CL | sandy clay (CL) [10YR3/4] Drk Yellow Brown, Damp, med stiff, 60% clay, 40% fine sand, med plac. | | | |
| 15 | | | same as above; iron oxide staining, mottled. | | | |
| | | SP | sand lense (SP) poorly graded sands, Dry, coarse fine sand | | | |
| | | CL | sandy clay (CL) [10YR3/4] Drk Yellow Brown, | | | |
| 20 | | Loose | clayey sands (SC) [10YR4/4] Dk Yellow Brown, moist, ~~Soft~~ 70% fine sand 30% clay, low plac, poorly graded. | | | |
| | | SC | | | | |
| 25 | | SP | poorly graded sands (SP) [10YR3/4] Drk Yellow Brown, Wet @ 100SE, 90% coarse-fine sand, 10% clay, rounded, iron oxide staining. Bottom of Boring 28' | | | |
| 30 | | | | | | |

Well Permit No.:
Date well drilled: 4/4/01
Date water level measured:
Well elevation:

Drilling Company: Vironex
Driller: Scott
Sampling Method: DP
Hammer Weight:

LF Geologist/Engineer: TBR

Sketch of Well Location:

FIELD LOG OF WELL CONSTRUCTION AND LITHOLOGY FOR SB-23

Project No. 7962.01

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

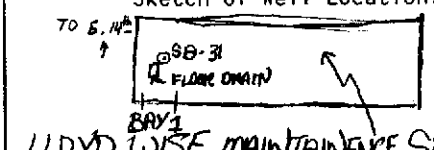
| Depth, feet | WELL CONSTRUCTION (Type of Security) | Graphic Log | LITHOLOGY Description | SAMPLE DATA NUMBER | SAMPLE DATA INTERVAL | SAMPLE DATA PENETRATION RATE (Blows/ft.) |
|---|---|---|---|---|---|---|
| 0 | | PID (ppm) | FLOOR SAND PACK INCLUDING PIECES OF BRICK, CONCRETE | NR | | |
| | | | SLIGHTLY-SILTY CLAY, [CL], VERY DARK BRN (10YR 2/2), DAMP, <5% SILT, VERY LOW-ZERO PLASTIC, LOW STIFFNESS | | SB-31-4' 0847 | |
| 5 | | CL | | NR | | |
| | | | SILTY-CLAY [CL], VERY DARK BRN (10 YR 2/2), DAMP, <15% SILT, MED PLASTICITY, MED STIFFNESS | | SB-31-7' 0850 | |
| | | 58.3 | INCREASING STIFFNESS, STRONG GASOLINE ODOR, COLOR CHANGE TO (10YR 3/1) | | | |
| 10 | | SC ~300 | CLAYEY FINE SAND [SC], VERY DARK DAMP BRN (10 YR 3/1), LOW PLASTICITY, <15% CLAY, STRONG GASOLINE ODOR + STAINING | | SB-31-10' 0855 | |
| | | 200.7 | STRONG GASOLINE ODOR + STAINING | | | |
| | | | SLIGHTLY SILTY CLAY [CL], DARK BRN (10 YR 3/3), DAMP, <5% SILT, MED PLASTICITY, GASOLINE ODOR DECREASING, VERY STIFF Slight visible sheen. | | | |
| 15 | | CL | COLOR CHANGE TO DARK GRAY (10 Y/2 4/1) DUE TO STAINING | | SB-31-15' 0925 | |
| | | | STRONG GASOLINE ODOR + STAINING | | | |
| | | | 3" CLAYEY SAND/SANDY CLAY [CL], FINE SAND <10% | | | |
| | | 42 (250 IN BAG) | SLIGHTLY SILTY CLAY [CL], DARK GRAY (10 YR 4/1), GASOLINE ODOR, DAMP, LOW PLASTICITY, <5% SILT, MED STIFFNESS, STAINING | | | |
| 20 | | ~1 BY DRILL | | | SB-31-20 1005 (HOLD) | |
| | | | STRONG GASOLINE ODOR, DARK GRAY (10 YR 4/1), STAINING LOW PLASTICITY, MED STIFFNESS | | | |
| | | 56 | | | SB-31-23 1019 (HOLD) | |
| | | 48 | CLAYEY VFS-FINE SAND [SC], DARK GREENISH GRAY (5GY 4/1), DAMP +SHEEN, <20% CLAY, 10% SILT, ZERO-LOW PLASTICITY, GASOLINE ODOR, STAINING +SHEEN | | SB-31-25' 1020 | |
| 25 | | SC | | | | |
| | | 21 | [SC] COARSENS TO FINE-MED SAND, NO GASOLINE ODOR, DARK YELLOWISH BRN (10YR 4/4), <1% CLAY, NO PLASTICITY, WET, NO STAINING | | | |
| | | | WELL SORTED / POORLY GRADED | | | |
| | | | TD = 28' | | | |
| 30 | | | | | | |
| | | | GGW SAMPLE @ 1110 | | | |

Well Permit No.:
Date well drilled: 3/26/01
Date water level measured:
Well elevation:

Drilling Company: Precision
Driller: Kian, Jose
Sampling Method: Direct Push
Hammer Weight:

LF Geologist/Engineer: KPB, TGR

Sketch of Well Location:




FIELD LOG OF WELL CONSTRUCTION AND LITHOLOGY FOR SB-31

Project No. 7962.01

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

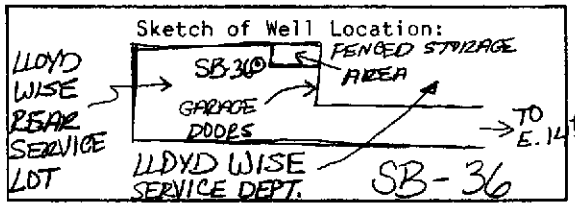
| Depth, feet | WELL CONSTRUCTION Type of Security: | Graphic Log | Description | SAMPLE DATA Number | Interval | Penetration Rate (Blows/ft.) |
|---|---|---|---|---|---|---|
| | | NR | | | | |
| | | | COARSE IRON-OXIDIZED FINE SAND W/ASPHALT GRAVEL | SB-36-4' | | |
| 5 | | | SILTY-CLAY (CL), VERY DARK GRAYISH BRN (10 YR 3/2) HIGHLY PLASTIC, SILT < 10%, 0 DILITANCY | SB-36-5.5' | | |
| | | | INCREASING STIFFNESS, Fe-OXIDE MOTTLING (MINOR), COLOR CHANGE TO 10 YR 3/1 | | | |
| 10 | | | INCREASING STIFFNESS, NOW HIGH PLASTICITY, COLOR CHANGE TO 10 YR 3/6. | SB-36-10' | | |
| | | | MED STIFFNESS, 10 YR 3/3 SLIGHTLY-SILTY CLAY (CL) | | | |
| | | | VERY STIFF | SB-36-15' | | |
| 15 | | CL | MED-HIGH PLASTICITY, SLIGHTLY-SILTY CLAY (CL), 10 YR 3/3 | | | |
| | | | MED PLASTICITY | | | |
| | | | HIGH PLASTICITY, MED STIFFNESS | SB-36-20' | | |
| 20 | | | INCREASING SILT, LOW STIFFNESS | | | |
| | | | COLOR CHANGE TO 2.5 YR 4/4 SILTY CLAY (CL), VERY STIFF, HIGH PLASTICITY, 0 DILITANCY | | | |
| | | | INCREASING SILT | | | |
| | | | CLAYEY SAND (SC), OLIVE BRN (2.5 Y 4/3) W/ Fe-OXIDE MOTTLING, LOW PLASTICITY, LOW DILITANCY | SB-36-25' | | |
| 25 | | SC | DECREASING CLAY, ZERO PLASTICITY, VERY-FINE SAND INCREASING | | | |
| | | ML | VERY FINE SAND (ML), OLIVE BRN (2.5 Y 4/3), NO PLASTICITY, | | | |
| | | | TD = 28' LOW DILITANCY | | | |
| 30 | | | | | | |
| 35 | | | | | | |

Well Permit No.:
Date well drilled: 3-22-01
Date water level measured:
Well elevation:

Drilling Company: PRECISION
Driller: TERRY & KIRAN
Sampling Method: DIRECT PUSH
Hammer Weight:

LF Geologist/Engineer: KPB CNS

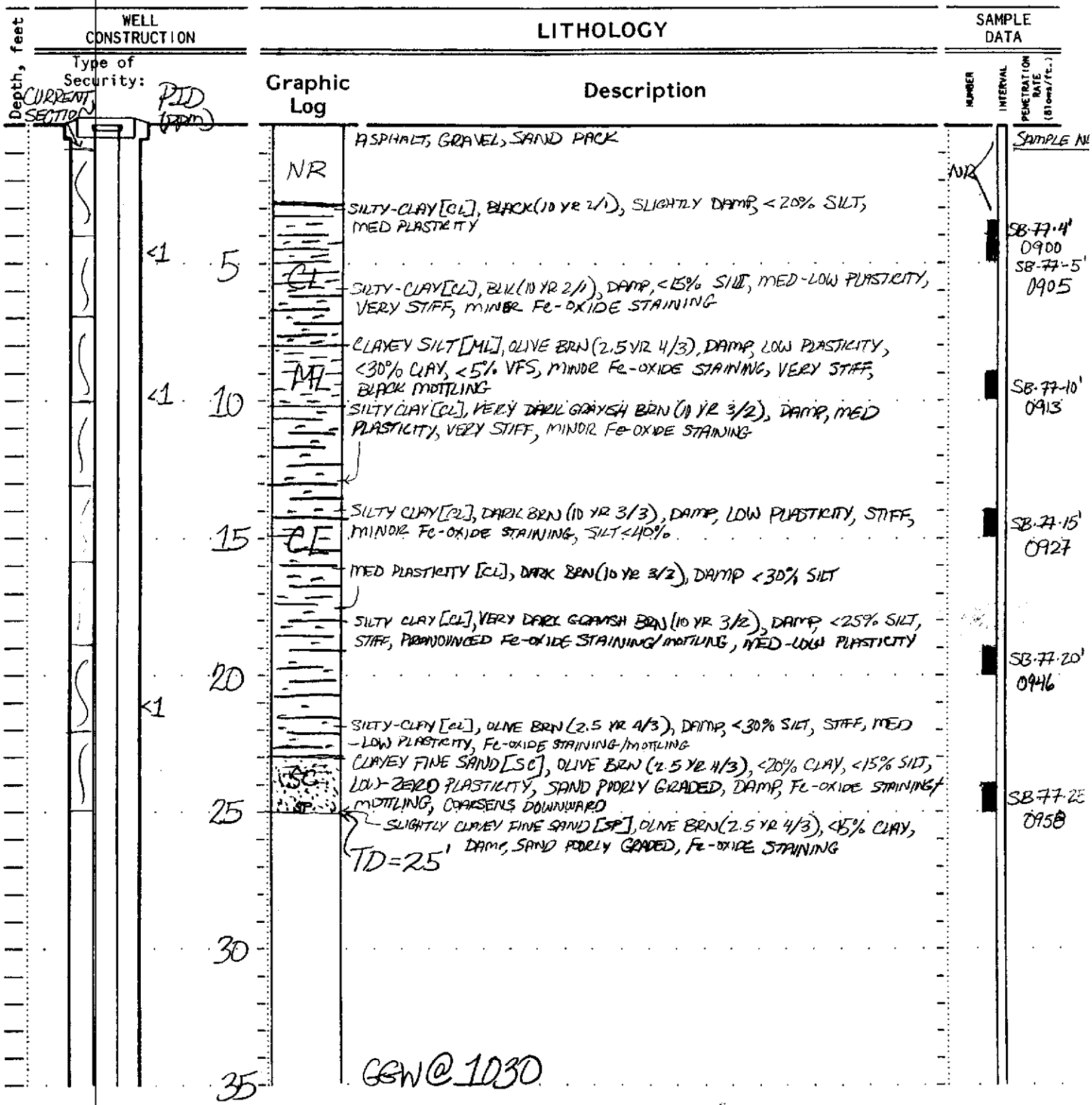
Sketch of Well Location:




FIELD LOG OF WELL CONSTRUCTION AND LITHOLOGY FOR SB-36

Project No. 7962.01

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

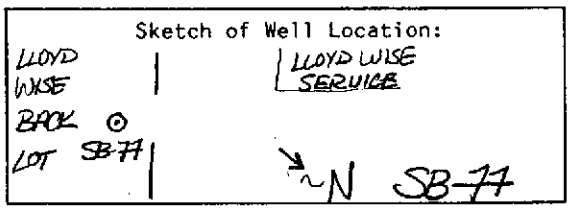



Well Permit No.:
Date well drilled: 3-30-01
Date water level measured:
Well elevation:

Drilling Company: PRECISION
Driller: KIAN JOSE
Sampling Method: DIRECT PUSH
Hammer Weight:

LF Geologist/Engineer: KPB

Sketch of Well Location:




FIELD LOG OF WELL CONSTRUCTION AND LITHOLOGY FOR SB-77

Project No. 7962.01

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

# ATTACHMENT D

## Backfill Material Specification

Vulcan
Materials Company
Western Division

February, 2015

***Phase-1 Environmental Services***
Stuart G. Solomon, CEO
(831) 422-2290 -O
(408) 406-3850 -C

Dear Stuart,

The Universal Fill (29192) rock you receive is manufactured at Vulcan Materials in Pleasanton, CA Smara #91-01-0010. It is processed from an alluvial deposit here in Pleasanton and contains no recycled materials.

David Ruedi
Technical Services

Vulcan Materials Company

**Pleasanton Plant**
**SMARA 91-01-0010**

**February, 2015**

**To:** stuart@phase-1environmental.com

**Subject: 29192 – Rodmill Pea Gravel**

**Project:** 10500 International Blvd., Oakland, CA

**The Pleasanton Rod Mill Pea Gravel material produced by Vulcan Materials Company is an aggregate produced at the Pleasanton, California Plant, SMARA No. 91-01-0010. The Typical physical properties of the aggregate are summarized below.**

**29192 - Universal Fill**

| GRADATION | | | |
|---|---|---|---|
| SIEVE SIZE | PERCENT PASSING | Generic Specification | |
| ¾" (19.0 mm) | 100 | | |
| ½" (12.5 mm) | 100 | | |
| 3/8" (9.5 mm) | 100 | | |
| No. 4 (4.75 mm) | 90 | | |
| No. 8 (2.36 mm) | 19 | | |
| No. 16 (1.18 mm) | 0 | | |
| No. 30 (600 µm) | 0 | | |
| No. 50 (300 µm) | 0 | | |
| No. 100 (150 µm) | 0 | | |
| No. 200 (75 µm) | 0 | | |

**PHYSICAL PROPERTIES**

| ASTM STANDARD | FINE AGGREGATE ASTM C 33 |
|---|---|
| Specific Gravity (SSD) | 2.664 |
| Cleanness Value | 97 |
| Absorption | 1.8% |
| Fine Durability Index | 87 |
| Plasticity Index, PI | NP |
| ASTM C 88 – Sodium Sulfate Soundness | 3.9% |

**Respectfully,**
**Vulcan Materials Company**

**Technical Services**

# ATTACHMENT E

## Disposal Manifests

# REPUBLIC SERVICES SPECIAL WASTE PROFILE

Requested Disposal Facility: 5127 Newby Island LF CA

| Waste Profile # |
|---|
| |
| Sales Rep #: |

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

## I. Generator Information

| | | | |
|---|---|---|---|
| Generator Name: The Batarse Family Trust, Leslie A. Rich, Trustee | | | |
| Generator Site Address: 10500 International Blvd | | | |
| City: Oakland | County: Alameda | State: California | Zip: 94603 |
| State ID/Reg No: | State Approval/Waste Code: (if applicable) | | NAICS # : |
| Generator Mailing Address (if different): ☐ 10500 International Blvd | | | |
| City: Oakland | County: Alameda | State: California | Zip: 94603 |
| Generator Contact Name: Leslie A. Rich | | Email: | |
| Phone Number: (510) 701-0000 | Ext: | Fax Number: (510) 430-8869 | |

## IIa. Transporter Information

| | | | |
|---|---|---|---|
| Transporter Name: Gregs Trucking | | Contact Name: Greg Menna | |
| Transporter Address: 2045 Detroit Ave. | | | |
| City: San Mateo | County: San Mateo | State: CA | Zip: 94404 |
| Phone: (650) 343-5946 | Fax: | State Transportation Number: | |

## IIb. Billing Information

| | | | |
|---|---|---|---|
| Bill To: ERS | | Contact Name: Ben Halsted | |
| Billing Address: PO Box 2006 | | Email: envirest@aol.com | |
| City: Menlo Park | State: Ca | Zip: 94026 | Phone: (408) 655-9434 |

## III. Waste Stream Information

| | |
|---|---|
| Name of Waste: Non-Hazardous TPH and metals contaminated soil | |
| Process Generating Waste: Surface Spills | |
| Type of Waste: | ☐ INDUSTRIAL PROCESS WASTE ☑ POLLUTION CONTROL WASTE |
| Physical State: | ☑ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID |
| Method of Shipment: | ☑ BULK ☐ DRUM ☐ BAGGED ☐ OTHER: |
| Estimated Annual Volume: | 200 Cubic Yards |
| Frequency: | ☑ ONE TIME ☐ ANNUAL |
| Disposal Consideration: | ☑ LANDFILL ☐ SOLIDIFICATION ☐ BIOREMEDIATION |

## IV. Representative Sample Certification

☐ NO SAMPLE TAKEN

| | |
|---|---|
| Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules? | ☑ YES or ☐ NO |
| Sample Date: 2/24/15 | Type of Sample: ☑ COMPOSITE SAMPLE ☐ GRAB SAMPLE |
| Sample ID Numbers: STKPL (A-D) Composite | |

| Waste Profile # |
|---|
| |

## V. Physical Characteristics of Waste

| Characteristic Components | % by Weight (range) |
|---|---|
| 1. SOIL | 85 |
| 2. moisture | 15 |
| 3. | |
| 4. | |
| 5. | |

| Color | Odor (describe) | Does Waste Contain Free Liquids? | % Solids | pH: | Flash Point |
|---|---|---|---|---|---|
| brown | none | ☐ YES or ☑ NO | 85 | 7 | 240 °F |

***Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile***

| | |
|---|---|
| Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? | ☐ Yes or ☑ No |
| Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]? | ☐ Yes or ☑ No |
| Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? | ☐ Yes or ☑ No |
| Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? | ☐ Yes or ☑ No |
| Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? | ☐ Yes or ☑ No |
| Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31? | ☐ Yes or ☑ No |
| Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? | ☐ Yes or ☑ No |
| Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? | ☐ Yes or ☑ No |
| Is this waste a reactive or heat generating waste? | ☐ Yes or ☑ No |
| Does the waste contain sulfur or sulfur by-products? | ☐ Yes or ☑ No |
| Is this waste generated at a Federal Superfund Clean Up Site? | ☐ Yes or ☑ No |
| Is this waste from a TSD facility, TSD like facility or consolidator? | ☐ Yes or ☑ No |

## VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

| Leslie A. Rich, Trustee | The Batarse Family Trust |
|---|---|
| Authorized Representative Name And Title (Type or Print) | Company Name |
| Authorized Representative Signature | 03/12/2015 |
| | Date |

11 March 2015

Republic Services
1145 W. Charter Way
Stockton, CA 95206

**Subject:** **10500 International Blvd. and 10 Contiguous parcels along 105th Avenue Oakland, California**

The "10500 International Blvd. Property" and 10 contiguous parcels along 105th Ave. are owned by The Batarse Family Trust - Leslie A. Rich Jr. is the Trustee.

This Property has a history of automotive-related businesses, from auto Dealerships, to body shops, auto maintenance facilities, and tow yards. As such, there has been use and storage of fuels, paints, and other controlled substances on site for years, which naturally come under the scrutiny of environmental regulatory agencies. A waste oil and gasoline tank were removed from the 10500 International Blvd. parcel in 1993. The gasoline tank had leaked, causing isolated groundwater contamination beneath the tank. Contaminated soil was removed, and monitoring wells were installed. The wells were monitored over a 5 year period, and the case was closed by Alameda County in 1998. Under its current zoning (commercial), the case would not have been reopened unless there were plans in the future to excavate the area of the previous tank to the depth of groundwater.

The Oakland Unified School District (OUSD) made a move to purchase the Property in 2000 as part of a school expansion project. The standards for environmental cleanliness for a school project are most stringent. The OUSD hired Levine-Fricke Recon, (LFR) to perform a detailed Phase I Site Assessment and historical records search. The findings of the Phase I were used to fashion a comprehensive Phase II (sub-surface) investigation. The subsurface work was performed under the oversight of the Department of Toxic Substances Control (DTSC) by LFR. The study involved most of the Property as well as areas of 105th Ave. 62 borings were installed – 53 of them to the depth of groundwater. These borings were not randomly positioned, but rather placed in specific areas where known equipment, hydraulic lifts, drains, piping, and vehicle storage had been identified in the Phase I. 256 soil and groundwater samples were collected; starting at or near the surface and taken at 5 foot depth intervals thereafter. These were tested for most all contaminants, including oils, gas, diesel, solvents, BTEX, VOC's, SVOC's, PCE, and all 17 metals that might be of concern.

Aside from the previous gasoline tank location, there were 5 areas on the Property that were identified as needing some form of remediation if the Property were to be rezoned for school occupancy. 3 of those areas are where isolated samples of soil near the surface were affected by TPH (Gas, Diesel, or Motor Oil) – most likely from vehicle storage and leakage. One area was within the auto maintenance building behind 10500 near a former hydraulic lift where various TPH compounds were detected. There was one area where arsenic was slightly elevated above background levels. Maps showing these 5 areas and the related compounds detected by the LFR study are attached to this document.

Due to financial restraints, the Unified School District backed out of the purchase and curbed their expansion plans. The remediation work that had been planned was no longer needed.

In 2014, this Property was brought into escrow with a developer who desires to develop it for residential use. To do so, the 5 Areas of Environmental Concerns identified in the LFR study needed to be addressed. A Work Plan for the excavation of the 5 areas was submitted and approved by Alameda County.

The five areas were excavated in late February 2015. Samples of the excavated soil have been profiled for disposal. This disposal activity is contracted to Environmental Restoration Services, Inc.

If you have any questions, or need additional information for this site or project, please contact Stuart G. Solomon, our Environmental Professional managing this project. Stuart can be reached at (408) 406-3850 or emailed to stuart@phase-1environmental.com

Respectfully,

Leslie A. Rich, Trustee
The Batarse Family Trust
10550 International Blvd.
Oakland, CA 94603
(510) 701-0000

REPUBLIC SERVICES

# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269086

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes Ia-r)

| a. Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

| d. Generator's Name and Location: | e. Generator's Mailing Address: |
|---|---|
| The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 | The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 |
| f. Phone: 510-701-0000 | g. Phone: 510-701-0000 |

If owner of the generating facility differs from the generator, provide:

h. Owner's Name: | i. Owner's Phone No.:

| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| p. Generator Authorized Agent Name (Print) | q. Signature | r. Date |
|---|---|---|
| Glen Sedon on behalf of Batarse Trust | | 3-25-15 |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Cruess Trucking 2045 Retroit Dr San Mateo

b. Phone: 650-343-5946

| c. Driver Name (Print) | d. Signature | e. Date |
|---|---|---|
| Gil | | 3/25/15 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| a. Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>b. Milpitas, CA 95035 408-262-1401 | | 1123475 |

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| e. Name of Authorized Agent (Print) | f. Signature | g. Date |
|---|---|---|
| | | 3/25/15 |

SITE
International Disposal Corp of Ca
Milpitas, CA 95035 408-262-1401

CUSTOMER
001015
ENVIRONMENTAL RESTORATION SERVICES
PO BOX 2006
MENLO PARK, CA 94026
5127153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 1123475 | |

WEIGHMASTER: Jose L.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-25-2015 9:01 am | 03-25-2015 9:01 am |

VEHICLE: GTC608
CONTAINER:
REFERENCE: INVOICE
BILL OF LADING: 2269086

SCALE IN / TARE OUT
GROSS WEIGHT 68,060 / TARE WEIGHT 32,360
NET TONS 17.85 / NET WEIGHT 35,700
INBOUND

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.00 | YD | TRACKING QTY | | | | |
| 17.85 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

# REPUBLIC SERVICES — NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269087

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

NO

## I. GENERATOR (Generator completes Ia-r)

| a. Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

| d. Generator's Name and Location: | e. Generator's Mailing Address: |
|---|---|
| The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 | The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 |
| f. Phone: 510-701-0000 | g. Phone: 510-701-0000 |

If owner of the generating facility differs from the generator, provide:

| h. Owner's Name: | i. Owner's Phone No.: |
|---|---|
| | |

| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions: I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| p. Generator Authorized Agent Name (Print) | q. Signature | r. Date |
|---|---|---|
| Pat Halsted on behalf of Batarse Trust | | 3-25-15 |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Gmas Trucking 2045 Detroit Dr San Mateo Ca
Supreet Trk

b. Phone: 650-343-5946

| c. Driver Name (Print) | d. Signature | e. Date |
|---|---|---|
| PREET | | 3/25/15 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| a. Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>Milpitas, CA 95035 | | |
| b. 408-262-1401 | | |

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| e. Name of Authorized Agent (Print) | f. Signature | g. Date |
|---|---|---|
| | | 3.25.15 |

---

SITE
International Disposal Corp of Ca
Milpitas, CA 95035 408-262-1401

CUSTOMER
001015
ENVIRONMENTAL RESTORATION SERVICES
PO BOX 2006
MENLO PARK, CA 94026
5127153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 1123476 | |

WEIGHMASTER: Humberto P.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-25-2015 9:02 am | 03-25-2015 9:02 am |

| VEHICLE | CONTAINER |
|---|---|
| ST33 | |

REFERENCE: #NO JOB# PER DRIVER INVOICE

BILL OF LADING: 2269087

| | | | | | |
|---|---|---|---|---|---|
| SCALE IN | GROSS WEIGHT | 68,740 | NET TONS | 18.38 | |
| TARE OUT | TARE WEIGHT | 31,980 | NET WEIGHT | 36,760 | INBOUND |

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.00 | YD | TRACKING QTY | | | | |
| 18.38 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

REPUBLIC SERVICES

# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269088

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

## GENERATOR (Generator completes Ia-r)

| Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

Generator's Name and Location:
The Batarse Family Trust, Leslie A. Rich. Trustee
10500 International Blvd
Oakland, CA 94603 510-701-0000
Phone:

e. Generator's Mailing Address:
The Batarse Family Trust, Leslie A. Rich. Trustee
10500 International Blvd
Oakland, CA 94603 510-701-0000
g. Phone:

owner of the generating facility differs from the generator, provide:

Owner's Name:

i. Owner's Phone No.:

| Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

ENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable ate law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this aste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has en treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| Melchor on behalf of Batarse Trust | | 3-25-15 |
|---|---|---|
| Generator Authorized Agent Name (Print) | q. Signature | r. Date |

## TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Transporter's Name and Address:
Gregs Trucking 2045 Detroit Ave San Mateo.

Phone: 650-345-5946

| GILL | | 3/25/15 |
|---|---|---|
| Driver Name (Print) | d. Signature | e. Date |

## DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>Milpitas, CA 95035 408-262-1401 | | H2363 |

ereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| | | |
|---|---|---|
| Name of Authorized Agent (Print) | f. Signature | g. Date |

International Disposal Corp of Ca

Milpitas, CA 95035 408-262-1401

ER
1015
/IRONMENTAL RESTORATION SERVICES
BOX 2006
NLO PARK, CA 94026
27153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 1123613 | |

WEIGHMASTER: Porfirio H.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-25-2015 11:32 am | 03-25-2015 11:32 am |

| VEHICLE | CONTAINER |
|---|---|
| GTC608 | |

REFERENCE: INVOICE

BILL OF LADING: 2269088

| | | | | |
|---|---|---|---|---|
| SCALE IN | GROSS WEIGHT | 71,580 | NET TONS | 19.61 |
| TARE OUT | TARE WEIGHT | 32,360 | NET WEIGHT | 39,220 |

INBOUND

| | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| .00 | YD | TRACKING QTY | | | | |
| .61 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

# REPUBLIC SERVICES — NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269089

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes Ia-r)

| a. Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

| d. Generator's Name and Location: | e. Generator's Mailing Address: |
|---|---|
| The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 510-701-0000 | The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 510-701-0000 |
| f. Phone: | g. Phone: |
| If owner of the generating facility differs from the generator, provide: | |
| h. Owner's Name: | i. Owner's Phone No.: |

| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| p. Generator Authorized Agent Name (Print) | q. Signature | r. Date |
|---|---|---|
| Stakeholder on behalf of Batarse Trust | B. Rich | 3-25-15 |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Gross Trucking 2045 Detroit Ave San Mateo (Surface Tec)

b. Phone: 650-343-5946

| c. Driver Name (Print) | d. Signature | e. Date |
|---|---|---|
| PREET | | 3/25/15 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| a. Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>Milpitas, CA 95035 408-262-1401 | | 1123629 |
| b. | | |

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| e. Name of Authorized Agent (Print) | f. Signature | g. Date |
|---|---|---|
| | | |

International Disposal Corp of Ca

Milpitas, CA 95035 408-262-1401

TOMER
001015
ENVIRONMENTAL RESTORATION SERVICES
PO BOX 2006
MENLO PARK, CA 94026
5127153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 1123629 | - |

WEIGHMASTER: Jose L.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-25-2015 11:52 am | 03-25-2015 11:52 am |

| VEHICLE | CONTAINER |
|---|---|
| ST33 | |

REFERENCE: INVOICE

BILL OF LADING: 2269089

| | | | | | |
|---|---|---|---|---|---|
| SCALE IN | GROSS WEIGHT | 79,000 | NET TONS | 23.51 | |
| TARE OUT | TARE WEIGHT | 31,980 | NET WEIGHT | 47,020 | INBOUND |

| TY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.00 | YD | TRACKING QTY | | | | |
| 23.51 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

# REPUBLIC SERVICES — NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269090

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes Ia-r)

| a. Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

| d. Generator's Name and Location: | e. Generator's Mailing Address: |
|---|---|
| The Batarse Family Trust, Leslie A. Rich, Trustee<br>10500 International Blvd<br>Oakland, CA 94603 | The Batarse Family Trust, Leslie A. Rich, Trustee<br>10500 International Blvd<br>Oakland, CA 94603 |
| f. Phone: 510-701-0000 | g. Phone: 510-701-0000 |
| If owner of the generating facility differs from the generator, provide: | |
| h. Owner's Name: | i. Owner's Phone No.: |

| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| p. Generator Authorized Agent Name (Print) | q. Signature | r. Date |
|---|---|---|
| Bill Stetson on behalf of Batarse Trust | B. Stetson | 3-25-15 |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Griggs Trucking 200 - Redwood Dr. San Mateo
Pap, Cat 7 Tee

b. Phone: 650-343-5996

| c. Driver Name (Print) | d. Signature | e. Date |
|---|---|---|
| Scott | | 3/25/15 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| a. Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>Milpitas, CA 95035 408-262-1401<br>b. | | 1123747 |

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| e. Name of Authorized Agent (Print) | f. Signature | g. Date |
|---|---|---|
| | | 3/25/15 |

TE
International Disposal Corp of Ca
Milpitas, CA 95035 408-262-1401

STOMER
001015
ENVIRONMENTAL RESTORATION SERVICES
PO BOX 2006
MENLO PARK, CA 94026
5127153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 1123747 | |

WEIGHMASTER: Jose L.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-25-2015 2:22 pm | 03-25-2015 2:22 pm |

| VEHICLE | CONTAINER |
|---|---|
| ST33 | |

REFERENCE: INVOICE

BILL OF LADING: 2269090

| | | | | | |
|---|---|---|---|---|---|
| SCALE IN | GROSS WEIGHT | 75,520 | NET TONS | 21.77 | |
| TARE OUT | TARE WEIGHT | 31,980 | NET WEIGHT | 43,540 | INBOUND |

| TY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.00 | YD | TRACKING QTY | | | | |
| 21.77 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

REPUBLIC SERVICES

# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269091

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes Ia-r)

| a. Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

| d. Generator's Name and Location: | e. Generator's Mailing Address: |
|---|---|
| The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 510-701-0000<br>f. Phone: | The Batarse Family Trust, Leslie A. Rich. Trustee<br>10500 International Blvd<br>Oakland, CA 94603 510-701-0000<br>g. Phone: |
| If owner of the generating facility differs from the generator, provide:<br>h. Owner's Name: | i. Owner's Phone No.: |

| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| p. Generator Authorized Agent Name (Print) | q. Signature | r. Date |
|---|---|---|
| Billed on behalf of Batarse Trust | | 3/25/15 |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Green Trucking 20 S Detroit Ave San Mateo

b. Phone: 650-343-5946

| c. Driver Name (Print) | d. Signature | e. Date |
|---|---|---|
| | | 3/25/15 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| a. Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>Milpitas, CA 95035 408-262-1401<br>b. | | 112373 4 |

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| e. Name of Authorized Agent (Print) | f. Signature | g. Date |
|---|---|---|
| | | |

E

International Disposal Corp
Milpitas, CA 95035 408-262-1401

STOMER
001015
ENVIRONMENTAL RESTORATION SERVICES
PO BOX 2006
MENLO PARK, CA 94026
5127153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 112373 | |

WEIGHMASTER: Jose L.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-25-2015 2:02 pm | 03-25-2015 2:02 pm |

VEHICLE: GTC608
CONTAINER:
REFERENCE: INVOICE
BILL OF LADING: 2269091

SCALE IN GROSS WEIGHT 73,660 NET TONS 20.65
TARE OUT TARE WEIGHT 32,360 NET WEIGHT 41,300 INBOUND

| TY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.00 | YD | TRACKING QTY | | | | |
| 20.65 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

REPUBLIC SERVICES

# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2269092

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes Ia-r)

| a. Generator's US EPA ID Number | b. Manifest Document Number | c. Page 1 of |
|---|---|---|
| N/A | | |

| d. Generator's Name and Location: | e. Generator's Mailing Address: |
|---|---|
| The Batarse Family Trust, Leslie A. Rich. Trustee<br>10600 International Blvd<br>Oakland, CA 94603 510-701-0000 | The Batarse Family Trust, Leslie A. Rich. Trustee<br>10600 International Blvd<br>Oakland, CA 94603 510-701-0000 |
| f. Phone: | g. Phone: |
| If owner of the generating facility differs from the generator, provide: | |
| h. Owner's Name: | i. Owner's Phone No.: |

| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. | m. Containers Type | n. Total Quantity | o. Unit Wt/Vol |
|---|---|---|---|---|---|---|
| 5127153749 | 3/4/2016 | Soil | | | | CY |
| | | | | | | |
| | | | | | | |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

| p. Generator Authorized Agent Name (Print) | q. Signature | r. Date |
|---|---|---|
| B. Walsh on behalf of Batarse Trust | | 3-28-15 |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Maciel Trucking 41556 Boscell. Rd Fremont

b. Phone: 510-226-9244

| c. Driver Name (Print) | d. Signature | e. Date |
|---|---|---|
| | | 3/28/15 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

| a. Disposal Facility and Site Address: | c. US EPA Number | d. Discrepancy Indication Space: |
|---|---|---|
| Newby Island Landfill<br>1601 Dixon Landing Rd<br>Milpitas, CA 95035 408-262-1401<br>b. | | |

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

| e. Name of Authorized Agent (Print) | f. Signature | g. Date |
|---|---|---|
| | | 3-28-15 |

## IV. ASBESTOS (Generator completes IVa-f and Oper[illegible] complete IVg-i)

SITE
International Disposal Corp[illegible] f Ca
Milpitas, CA 95035 408-262-1401

CUSTOMER
001015
ENVIRONMENTAL RESTORATION SERVICES
PO BOX 2006
MENLO PARK, CA 94026
5127153749

| SITE | TICKET # | CELL |
|---|---|---|
| Y1 | 1124636 | |

WEIGHMASTER: Humberto P.

| DATE/TIME IN | DATE/TIME OUT |
|---|---|
| 03-28-2015 9:11 am | 03-28-2015 9:11 am |

| VEHICLE | CONTAINER |
|---|---|
| GT101 | |

REFERENCE: INVOICE

BILL OF LADING: 2269092

| | | | | | |
|---|---|---|---|---|---|
| SCALE IN | GROSS WEIGHT | 71,000 | NET TONS | 18.79 | |
| TARE OUT | TARE WEIGHT | 33,420 | NET WEIGHT | 37,580 | INBOUND |

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.00 | YD | TRACKING QTY | | | | |
| 18.79 | TN | SW-CONT SOIL-ALT DAILY COVE Oakland | | | | |

## ATTACHMENT F

## Client Authorization Letter

April 9, 2015

Mr. Mark Detterman
Alameda County Health Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

**Re: Excavation Documentation Report (Report #4409)**
Batarse Redevelopment, 10550 International Blvd. Oakland, California
ACHSA Site Cleanup Program Case # R0003151; Global ID T0000006347

Dear Mr. Detterman:

Attached for your review is a Excavation Documentation Report for the referenced case. The report was prepared by WellTest, Inc. (WTI) at my request.

I declare under the penalty of perjury that information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any questions or comments, please do not hesitate to contact me, or the WTI project manager, Bill Dugan at (408) 287-2175.

Sincerely,

Anthony A. Batarse, Jr.
10550 International Blvd.
Oakland, CA 94603